



Cembre



Certified Quality Management System



Certified Environmental Management System

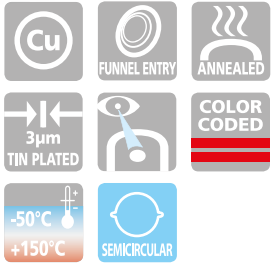
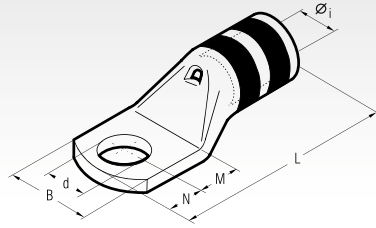


Certified Occupational Health & Safety Management System

GENERAL CATALOGUE



for Copper conductors



C series lugs are manufactured from electrolytic Copper tube.

The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

Cembre lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.

In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.

The presence of an inspection hole facilitates full insertion of the conductor. The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.

Lugs are electrolytically Tin plated to avoid oxidation.

The tongue is clearly marked with wire size and die index for Cembre tools.

UL listed for US and Canada per UL486A up to 35 KV.

C series lugs are an important part of Cembre crimping systems for power carrying conductors.

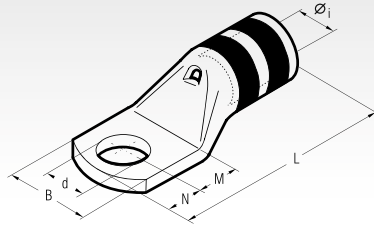
Details of the appropriate crimping tools and dies are shown on page 216.

Cembre technicians are available to provide technical advice as required. Please consult Cembre for products not listed.

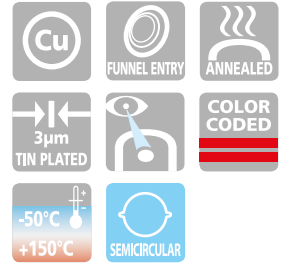
Cond. Size sqmm	Conductor		Type	Dimensions mm						Colour Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools				
	AWG	Navy		Ø Stud mm	Øi	B	M	N	L					d			
10	8	23	4 C8-8	4,6	10,0	5,0	4,0	22,5	4,3	RED	600/50	B15MDE					
			5 C8-10	4,6	10,0	6,5	6,0	26,0	5,3		600/50						
			6 C8-14	4,6	11,0	7,0	6,0	26,5	6,4		600/50						
			8 C8-516	4,6	15,0	9,0	8,0	30,5	8,4		600/50						
			10 C8-38	4,6	18,0	11,0	10,0	34,5	10,5		600/50						
12 C8-12	4,6	19,0	14,0	12,0	39,5	13,2	600/50										
16	6	40	4 C6-8	5,8	11,5	5,0	4,0	25,5	4,3	BLUE	600/50			B15MDE			
			5 C6-10	5,8	11,5	6,5	6,0	29,0	5,3		600/50						
			6 C6-14	5,8	11,5	7,0	6,0	29,5	6,4		600/50						
			8 C6-516	5,8	15,0	9,0	8,0	33,5	8,4		600/50						
			10 C6-38	5,8	18,0	11,0	10,0	37,5	10,5		600/50						
12 C6-12	5,8	20,0	14,0	12,0	43,5	13,2	400/50										
25	4	40	4 C4-8	6,2	12,5	5,0	4,0	25,5	4,3	GREY	600/50	B15MDE					
			5 C4-10	6,2	12,5	6,5	6,0	29,0	5,3		600/50						
			6 C4-14	6,2	12,5	7,0	6,0	29,5	6,4		600/50						
			8 C4-516	6,2	15,0	9,0	8,0	33,5	8,4		600/50						
			10 C4-38	6,2	18,0	11,0	10,0	37,5	10,5		400/50						
12 C4-12	6,2	20,0	14,0	12,0	42,5	13,2	400/50										
35	2	60	4 C3-8	7,0	14,0	5,0	4,0	28,0	4,3	WHITE	600/50			B15MDE			
			5 C3-10	7,0	14,0	6,5	6,0	31,5	5,3		600/50						
			6 C3-14	7,0	14,0	7,0	6,0	32,0	6,4		600/50						
			8 C3-516	7,0	15,0	9,0	8,0	36,0	8,4		600/50						
			10 C3-38	7,0	18,0	11,0	10,0	40,0	10,5		400/50						
12 C3-12	7,0	21,0	14,0	12,0	45,0	13,2	400/50										
50	1/0	100	5 C2-10	7,6	17,0	6,5	6,0	33,0	5,3	BROWN	400/50	B15MDE					
			6 C2-14	7,6	17,0	7,0	6,0	33,5	6,4		400/50						
			8 C2-516	7,6	17,0	9,0	8,0	37,5	8,4		400/50						
			10 C2-38	7,6	19,0	11,0	10,0	41,5	10,5		400/50						
			12 C2-12	7,6	21,0	14,0	12,0	46,5	13,2		200/50						
70	2/0	125	6 C1-14	8,9	17,0	7,0	6,0	34,5	6,4	GREEN	400/50					B15MDE	
			8 C1-516	8,9	17,0	9,0	8,0	38,5	8,4		400/50						
			10 C1-38	8,9	19,0	11,0	10,0	42,5	10,5		200/50						
			12 C1-12	8,9	21,0	14,0	12,0	47,5	13,2		200/50						
			6 C1/0-14	10,0	19,0	8,0	7,0	40,5	6,4		200/25						
95	3/0	150	8 C1/0-516	10,0	19,0	9,0	8,0	42,5	8,4	PINK	200/25			B15MDE			
			10 C1/0-38	10,0	20,0	11,0	10,0	46,5	10,5		200/25						
			12 C1/0-12	10,0	21,0	14,0	12,0	51,5	13,2		200/25						
			14 C1/0-916	10,0	25,0	16,0	14,0	55,5	15,0		200/25						
			16 C1/0-58	10,0	26,0	18,0	16,0	59,5	17,0		200/25						
100	4/0	200	6 C2/0-14	11,3	21,0	8,0	7,0	44,0	6,4	BLACK	200/25	B15MDE					
			8 C2/0-516	11,3	21,0	9,0	8,0	46,0	8,4		200/25						
			10 C2/0-38	11,3	21,0	11,0	10,0	50,0	10,5		200/25						
			12 C2/0-12	11,3	22,0	14,0	12,0	55,0	13,2		200/25						
			14 C2/0-916	11,3	25,0	16,0	14,0	59,0	15,0		100/25						
110	5/0	250	16 C2/0-58	11,3	26,0	18,0	16,0	63,0	17,0	ORANGE	100/25					B15MDE	
			20 C2/0-34	11,3	29,5	22,0	20,0	75,0	21,0		100/25						
			6 C3/0-14	12,4	23,0	8,0	7,0	45,0	6,4		200/25						
			8 C3/0-516	12,4	23,0	9,0	8,0	47,0	8,4		100/25						
			10 C3/0-38	12,4	23,0	11,0	10,0	51,0	10,5		100/25						
120	6/0	300	12 C3/0-12	12,4	24,0	14,0	12,0	56,0	13,2	ORANGE	100/25			B15MDE			
			14 C3/0-916	12,4	27,0	16,0	14,0	60,0	15,0		100/25						
			16 C3/0-58	12,4	28,0	18,0	16,0	64,0	17,0		100/25						
			18 C3/0-34	12,4	31,5	22,0	20,0	72,0	21,0		100/25						

COLOUR CODED COPPER CRIMPING LUGS

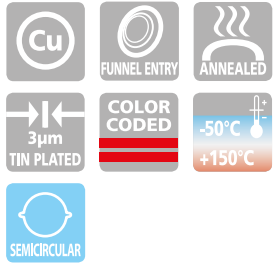
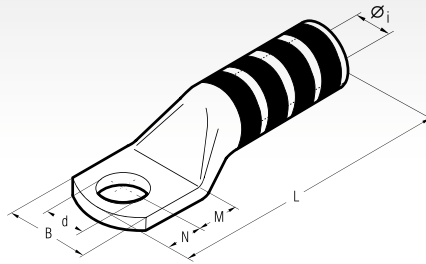
for Copper conductors



Cond. Size sqmm	Sez. Cond. AWG		Ø Stud mm	Type	Dimensions mm						Colour Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
	Size	Navy			Øi	B	M	N	L	d				
4/0	200	200	6	C4/0-14	13,5	25,0	8,0	7,0	50,5	6,4	PURPLE	100/25	TNI20SE	HT51 RH50 B500E B500NDE HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
			8	C4/0-516	13,5	25,0	9,0	8,0	52,5	8,4		100/25		
			10	C4/0-38	13,5	25,0	11,0	10,0	56,5	10,5		100/25		
			12	C4/0-12	13,5	25,0	14,0	12,0	61,5	13,2		100/25		
			14	C4/0-916	13,5	25,0	16,0	14,0	65,5	15,0		100/25		
			16	C4/0-58	13,5	27,0	18,0	16,0	69,5	17,0		50/25		
120	250	250	6	C250-14	15,2	28,5	8,0	7,0	52,0	6,4	YELLOW	100/25		
			8	C250-516	15,2	28,5	9,0	8,0	54,0	8,4		100/25		
			10	C250-38	15,2	28,5	11,0	10,0	58,0	10,5		100/25		
			12	C250-12	15,2	28,5	14,0	12,0	63,0	13,2		50/25		
			14	C250-916	15,2	28,5	16,0	14,0	67,0	15,0		50/25		
			16	C250-58	15,2	28,5	18,0	16,0	71,0	17,0		50/25		
150	300	300	20	C250-34	15,2	30,0	22,0	20,0	79,0	21,0	50/25			
			22	C250-78	15,2	32,0	24,0	23,0	84,0	23,0	50/25			
			8	C300-516	16,7	31,5	13,0	11,0	69,0	8,4	WHITE	40/10		
			10	C300-38	16,7	31,5	13,0	11,0	69,0	10,5		40/10		
			12	C300-12	16,7	31,5	16,0	14,0	75,0	13,2		40/10		
			14	C300-916	16,7	31,5	18,0	16,0	79,0	15,0		40/10		
16	C300-58	16,7	31,5	19,0	17,0	81,0	17,0	40/10						
20	C300-34	16,7	31,5	22,0	20,0	87,0	21,0	40/10						
185	350	350	22	C300-78	16,7	31,5	24,0	23,0	92,0	23,0	40/10			
			10	C350-38	17,6	33,0	13,0	11,0	70,5	10,5	RED	40/20		
			12	C350-12	17,6	33,0	16,0	14,0	76,5	13,2		40/20		
			14	C350-916	17,6	33,0	18,0	16,0	80,5	15,0		40/20		
			16	C350-58	17,6	33,0	19,0	17,0	82,5	17,0		40/20		
			20	C350-34	17,6	33,0	22,0	20,0	88,5	21,0		40/20		
22	C350-78	17,6	37,0	24,0	23,0	93,5	23,0	30/15						
400	400	400	10	C400-38	19,2	35,5	13,0	11,0	76,0	10,5	BLUE	40/20		
			12	C400-12	19,2	35,5	16,0	14,0	82,0	13,2		40/20		
			14	C400-916	19,2	35,5	18,0	16,0	86,0	15,0		40/20		
			16	C400-58	19,2	35,5	19,0	17,0	88,0	17,0		40/20		
			20	C400-34	19,2	35,5	22,0	20,0	94,0	21,0		40/20		
			22	C400-78	19,2	35,5	24,0	23,0	99,0	23,0		40/20		
240	500	MCM	10	C500-38	21,1	39,0	13,0	11,0	82,0	10,5	BROWN	30/15		
			12	C500-12	21,1	39,0	16,0	14,0	88,0	13,2		30/15		
			14	C500-916	21,1	39,0	18,0	16,0	92,0	15,0		30/15		
			16	C500-58	21,1	39,0	19,0	17,0	94,0	17,0		30/15		
			20	C500-34	21,1	39,0	22,0	20,0	100,0	21,0		20/10		
			22	C500-78	21,1	39,0	24,0	23,0	105,0	23,0		20/10		
300	600	MCM	12	C600-12	23,7	44,0	20,0	14,0	99,0	13,2	GREEN	20/10		
			14	C600-916	23,7	44,0	22,0	16,0	103,0	15,0		20/10		
			16	C600-58	23,7	44,0	22,0	19,0	106,0	17,0		20/10		
			20	C600-34	23,7	44,0	24,0	23,0	112	21,0		10/5		
			22	C600-78	23,7	44,0	24,0	23,0	112,0	23,0		10/5		
			12	C750-12	26,0	48,0	22,0	19,0	113,0	13,2		10/5		
750	MCM	750	16	C750-58	26,0	48,0	22,0	19,0	113,0	17,0	BLACK	10/5		
			20	C750-34	26,0	48,0	24,0	23,0	119,0	21,0		10/5		
			22	C750-78	26,0	48,0	24,0	23,0	119,0	23,0		10/5		



one hole long barrel - for Copper conductors



CL series lugs are manufactured from electrolytic Copper tube for use in heavy duty applications.

The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.

In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.

The long barrel provides better mechanical pull-out strength. Lugs are electrolytically Tin plated to avoid oxidation.

The tongue is clearly marked with wire size and die index for Cembre tools.

UL listed for US and Canada per UL486A up to 35 KV.

CL series lugs are an important part of Cembre crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 216.

Cembre technicians are available to provide technical advice as required. Please consult Cembre for products not listed.

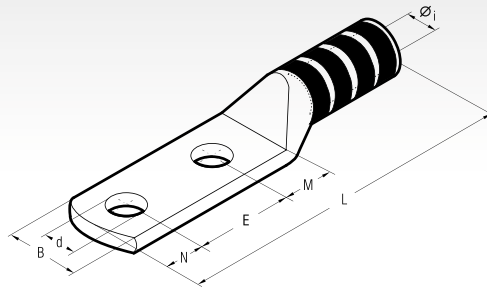
Cond. Size sqmm	Conductor AWG	Ø Stud mm	Type	Dimensions mm						Colour Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
				Øi	B	M	N	L	d				
10	8	23	5 CL8-10	4,6	10,0	6,5	6,0	37,5	5,3	RED	400/50	TN70SE	BT15MDE
			6 CL8-14	4,6	11,0	7,0	6,0	38,0	6,4		400/50		
			10 CL8-38	4,6	18,0	11,0	10,0	46,0	10,5		400/50		
16	6	60	5 CL6-10	5,8	11,5	6,5	6,0	40,0	5,3	BLUE	400/50		
			6 CL6-14	5,8	11,5	7,0	6,0	40,5	6,4		400/50		
			12 CL6-12	5,8	20,0	14,0	12,0	53,5	13,2		400/50		
25	4	40	5 CL4-10	6,2	12,5	6,5	6,0	47,0	5,3	GREY	400/50		
			6 CL4-14	6,2	12,5	7,0	6,0	47,5	6,4		400/50		
			10 CL4-38	6,2	18,0	11,0	10,0	55,5	10,5		400/50		
35	2	60	6 CL3-14	7,0	14,0	7,0	6,0	47,5	6,4	WHITE	200/100		
			8 CL3-516	7,0	15,0	9,0	8,0	51,5	8,4		200/100		
			10 CL3-38	7,0	18,0	11,0	10,0	55,5	10,5		200/100		
50	1/0	100	12 CL3-12	7,0	21,0	14,0	12,0	60,5	13,2	BROWN	200/50		
			5 CL2-10	7,6	17,0	6,5	6,0	46,0	5,3		200/50		
			6 CL2-14	7,6	17,0	7,0	6,0	46,5	6,4		200/50		
70	2/0	125	8 CL2-516	7,6	17,0	9,0	8,0	50,5	8,4	GREEN	200/50		
			12 CL2-12	7,6	21,0	14,0	12,0	59,5	13,2		200/50		
			5 CL1-10	8,9	17,0	6,5	6,0	48,0	5,3		200/50		
95	3/0	150	8 CL1-516	8,9	17,0	9,0	8,0	52,5	8,4	PINK	200/50		
			12 CL1-12	8,9	21,0	14,0	12,0	61,5	13,2		200/50		
			5 CL1/0-10	10,0	19,0	8,0	7,0	53,5	5,3		100/50		
120	250 MCM	250	8 CL1/0-516	10,0	19,0	9,0	8,0	55,5	8,4	BLACK	100/50		
			10 CL1/0-38	10,0	20,0	11,0	10,0	59,5	10,5		100/50		
			12 CL1/0-12	10,0	21,0	14,0	12,0	64,5	13,2		100/50		
150	300 MCM	300	10 CL2/0-38	11,3	21,0	11,0	10,0	67,5	10,5	ORANGE	100/50		
			12 CL2/0-12	11,3	22,0	14,0	12,0	72,5	13,2		100/50		
			12 CL3/0-12	12,4	24,0	14,0	12,0	71,5	13,2		100/50		
185	350 MCM	350	10 CL4/0-38	13,5	25,0	11,0	10,0	73,5	10,5	PURPLE	60/30		
			12 CL4/0-12	13,5	25,0	14,0	12,0	78,5	13,2		60/30		
			12 CL250-12	15,2	28,5	14,0	12,0	84,0	13,2		50/25		
240	400 MCM	400	12 CL300-12	16,7	31,5	16,0	14,0	98,0	13,2	YELLOW	30/15		
			12 CL400-12	19,2	35,5	16,0	14,0	107,0	13,2		20/10		
			16 CL400-58	19,2	35,5	19,0	17,0	113,0	17,0		20/10		
300	500 MCM	500	12 CL500-12	21,1	39,0	16,0	14,0	108,0	13,2	BROWN	20/10		
			16 CL500-58	21,1	39,0	19,0	17,0	114,0	17,0		20/10		
			12 CL600-12	23,7	44,0	20,0	14,0	128,5	13,2		10/5		
300	600 MCM	600	16 CL600-58	23,7	44,0	22,0	19,0	135,5	17,0	GREEN	10/5		
			12 CL750-12	26,0	48,0	22,0	19,0	140,5	13,2		10/5		
			16 CL750-58	26,0	48,0	22,0	19,0	140,5	17,0		10/5		

Also available with inspection hole.
 In case of order, add suffix IH to the part number.
 E.g.: CL250IH-12

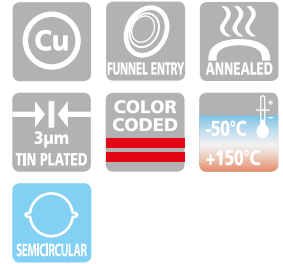
COLOUR CODED COPPER CRIMPING LUGS

CL-D

double hole long barrel - for Copper conductors



Cond. Size sqmm	Conductor AWG Size	Ø Stud mm	Type	Dimensions mm							Colour Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools						
				Øi	B	M	E	N	L	d										
10	8	23	6 CL8-D14	4,6	11,0	7,0	16,0	6,0	53,0	6,4	RED	400/50	BT5MDE							
			6 CL8-D141	4,6	11,0	7,0	19,0	6,0	56,0	6,4	RED	400/50								
			10 CL8-D38	4,6	18,0	11,0	25,5	10,0	70,5	10,5	RED	400/50								
16	6	40	6 CL6-D14	5,8	11,5	7,0	16,0	6,0	54,5	6,4	BLUE	400/50			TN70SE					
			6 CL6-D141	5,8	11,5	7,0	19,0	6,0	57,5	6,4	BLUE	400/50								
			10 CL6-D38	5,8	18,0	11,0	25,5	10,0	72,0	10,5	BLUE	400/50								
25	4	60	12 CL6-DN	5,8	20,0	14,0	44,5	12,0	96,0	13,2	BLUE	400/50					TN120SE			
			6 CL4-D14	6,2	12,5	7,0	16,0	6,0	62,0	6,4	GREY	200/50								
			6 CL4-D141	6,2	12,5	7,0	19,0	6,0	65,0	6,4	GREY	200/50								
3	50	100	10 CL4-D38	6,2	18,0	11,0	25,5	10,0	79,5	10,5	GREY	200/50							BT5MDE	
			12 CL4-DN	6,2	20,0	14,0	44,5	12,0	103,5	13,2	GREY	200/50								
			10 CL3-D38	7,0	18,0	11,0	25,5	10,0	79,5	10,5	WHITE	200/50								
35	2	125	12 CL3-DN	7,0	21,0	14,0	44,5	12,0	103,5	13,2	WHITE	200/50	TN120SE							
			6 CL2-D14	7,6	17,0	7,0	16,0	6,0	61,0	6,4	BROWN	200/50								
			6 CL2-D141	7,6	17,0	7,0	19,0	6,0	64,0	6,4	BROWN	200/50								
50	1/0	200	10 CL2-D38	7,6	19,0	11,0	25,5	10,0	78,5	10,5	BROWN	100/50			BT5MDE					
			12 CL2-DN38	7,6	19,0	11,0	44,5	10,0	97,5	10,5	BROWN	100/50								
			12 CL2-DN	7,6	21,0	14,0	44,5	12,0	102,5	13,2	BROWN	100/50								
70	2/0	300	6 CL1-D14	8,9	17,0	7,0	16,0	6,0	63,0	6,4	GREEN	200/50					TN120SE			
			6 CL1-D141	8,9	17,0	7,0	19,0	6,0	66,0	6,4	GREEN	200/50								
			10 CL1-D38	8,9	19,0	11,0	25,5	10,0	80,5	10,5	GREEN	100/25								
95	3/0	400	12 CL1-DN	8,9	21,0	14,0	44,5	12,0	104,5	13,2	GREEN	100/25							BT5MDE	
			6 CL1/0-D14	10,0	19,0	7,9	16,0	7,0	68,0	6,4	PINK	100/25								
			6 CL1/0-D141	10,0	19,0	7,9	19,0	7,0	71,0	6,4	PINK	100/25								
120	MCM	250	10 CL1/0-D38	10,0	20,0	10,9	25,5	10,0	83,5	10,5	PINK	100/25	TN120SE							
			12 CL1/0-DN	10,0	21,0	14,0	44,5	12,0	107,5	13,2	PINK	100/25								
			6 CL2/0-D14	11,3	21,0	7,8	16,0	7,0	76,0	6,4	BLACK	60/30								
150	MCM	300	6 CL2/0-D141	11,3	21,0	7,8	19,0	7,0	79,0	6,4	BLACK	60/30			BT5MDE					
			10 CL2/0-D38	11,3	21,0	11,0	25,5	10,0	91,5	10,5	BLACK	60/30								
			12 CL2/0-DN	11,3	22,0	14,0	44,5	12,0	115,5	13,2	BLACK	60/30								
185	MCM	350	6 CL3/0-D141	12,4	23,3	8,0	19,0	7,0	82,0	6,4	ORANGE	60/30					TN120SE			
			10 CL3/0-D38	12,4	23,3	11,0	25,5	10,0	94,5	10,5	ORANGE	60/30								
			12 CL3/0-DN	12,4	24,0	14,0	44,5	12,0	118,5	13,2	ORANGE	60/30								
240	MCM	400	6 CL4/0-D141	13,5	25,0	13,0	19,0	11,0	94,0	6,4	PURPLE	50/25							BT5MDE	
			10 CL4/0-D38	13,5	25,0	11,0	25,5	10,0	97,5	10,5	PURPLE	50/25								
			10 CL4/0-DN38	13,5	25,0	11,0	44,5	10,0	116,5	10,5	PURPLE	50/25								
300	MCM	450	12 CL4/0-DN	13,5	25,0	14,0	44,5	12,0	121,5	13,2	PURPLE	50/25	TN120SE							
			10 CL250-D38	15,2	28,5	11,0	25,5	10,0	103,0	10,5	YELLOW	40/20								
			12 CL250-DN	15,2	28,5	14,0	44,5	12,0	127,0	13,2	YELLOW	40/20								
360	MCM	500	10 CL300-D38	16,7	31,5	13,0	25,5	11,0	116,0	10,5	WHITE	30/15			BT5MDE					
			12 CL300-DN	16,7	31,5	16,0	44,5	14,0	141,0	13,2	WHITE	30/15								
			6 CL350-D141	17,6	33,0	13,0	19,0	11,0	109,5	6,4	RED	30/15								
420	MCM	550	10 CL350-D38	17,6	33,0	13,0	25,5	11,0	116,0	10,5	RED	30/15					TN120SE			
			12 CL350-DN	17,6	33,0	16,0	44,5	14,0	141,0	13,2	RED	30/15								
			6 CL400-D141	19,2	35,5	13,0	19,0	11,0	118,5	6,4	BLUE	20/10								
480	MCM	600	10 CL400-D38	19,2	35,5	13,0	25,5	11,0	125,0	10,5	BLUE	20/10							BT5MDE	
			12 CL400-DN	19,2	35,5	16,0	44,5	14,0	150,0	13,2	BLUE	20/10								
			6 CL500-D141	21,1	39,0	13,0	19,0	11,0	119,5	6,4	BROWN	20/10								
540	MCM	650	10 CL500-D38	21,1	39,0	13,0	25,5	11,0	126,0	10,5	BROWN	10/5	TN120SE							
			12 CL500-DN	21,1	39,0	16,0	44,5	14,0	151,0	13,2	BROWN	10/5								
			10 CL600-D38	23,7	44,0	20,0	25,5	11,0	149,5	10,5	GREEN	20/5								
600	MCM	750	12 CL600-DN	23,7	44,0	20,0	44,5	14,0	171,5	13,2	GREEN	20/5			BT5MDE					
			10 CL750-DN38	26,0	48,0	20,0	44,5	11,0	173,5	10,5	BLACK	15/5								
			10 CL750-D38	26,0	48,0	20,0	25,5	11,0	154,5	10,5	BLACK	15/5								
720	MCM	850	12 CL750-DN	26,0	48,0	20,0	44,5	14,0	176,5	13,2	BLACK	15/5					TN120SE			



CL series lugs are manufactured from electrolytic Copper tube.

The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.

Cembre lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.

In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.

The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.

Lugs are electrolytically Tin plated to avoid oxidation.

The tongue is clearly marked with wire size and die index for Cembre tools.

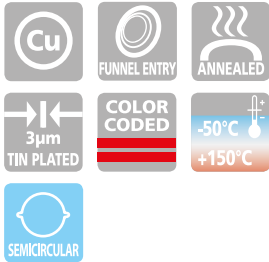
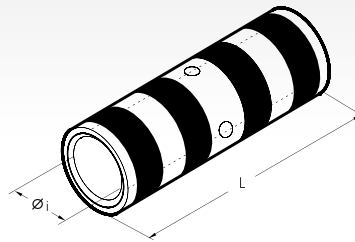
UL listed for US and Canada per UL486A up to 35 KV.

CL series lugs are an important part of Cembre crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 216.

Cembre technicians are available to provide technical advice as required. Please consult Cembre for products not listed.

long barrel - for Copper conductors



BSCL range of connectors are designed for joining low voltage conductors in heavy duty applications. Made of electrolytic Copper tube having the same dimension as C and CL series lugs, BSCL connectors are annealed and electrolytically Tin plated.

They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.

UL listed for US and Canada per UL486A up to 35 KV.

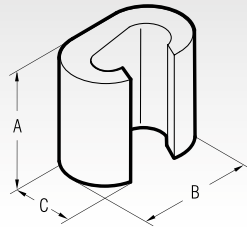
Appropriate crimping tools and dies are shown in details on page 216.

Conductor Size sqmm (AWG)	Conductor Size AWG	Type	Dimensions mm		Colour Code	Quantity Box/Bag	Mechanical Tools			Hydraulic Tools		
			ø1	L			HN1	HN5	TN70	TN120S	B15MDE	HT120 and tools and heads with 130 kN crimping force
10	8	BSCL8	4,6	50,5	RED	600/150	TN70	TN120S	HT151	RH50	B500E	B500NDE
16	6	BSCL6	5,8	50,5	BLUE	400/100						
25	4	BSCL4	6,2	60,5	GREY	200/100						
	3	BSCL3	7,0	60,5	WHITE	200/50						
35	2	BSCL2	7,6	60,5	BROWN	200/50						
	1	BSCL1	8,9	65,5	GREEN	200/50						
50	1/0	BSCL1/0	10,0	73,0	PINK	200/50						
70	2/0	BSCL2/0	11,3	79,0	BLACK	100/50						
95	3/0	BSCL3/0	12,4	79,0	ORANGE	80/40						
	4/0	BSCL4/0	13,5	85,5	PURPLE	50/25						
120	250 MCM	BSCL250	15,2	85,5	YELLOW	50/25	TN70	TN120S	HT151	RH50	B500E	B500NDE
150	300 MCM	BSCL300	16,7	104,5	WHITE	40/20						
185	350 MCM	BSCL350	17,6	104,5	RED	40/20						
	400 MCM	BSCL400	19,2	111,0	BLUE	20/10						
240	500 MCM	BSCL500	21,1	117,0	BROWN	20/10						
300	600 MCM	BSCL600	23,7	139,5	GREEN	20/10						
	750 MCM	BSCL750	26,0	149,0	BLACK	10/10						

SLEEVE CONNECTORS

for Copper conductors

C-C



tin plated version

Conductor Size sqmm		Type	Dimensions mm			Quantity Box/Bag	Mechanical Tools	Hydraulic Tools			
Run	Tap		A	B	C			HT45-E	B450ND-BVE	B500NDE	HT81-U
6÷2,5	6÷1,5	C6-C6ST*	9,0	9,8	6,4	1.000/100	HP4-C10	B450ND-BVE	B500NDE	HT81-U	RHU81
10	10÷1,5	C10-C10ST*	12,0	12,6	8,4	500/100					
16	16÷1,5	C16-C16ST	17,0	19,4	12,0	500/100	HT45-E	B500E	HT81-U	RHU81	
25÷16	10÷1,5	C25-C10ST	17,0	19,8	13,0	400/50					
25	25÷16	C25-C25ST	17,0	21,4	13,0	300/50	HT51	RH50	HT81-U	RHU81	
40÷35	16÷1,5	C35-C16ST	21,0	24,6	15,4	200/25					
40÷35	40÷25	C35-C35ST	21,0	26,6	15,6	200/25	HT51	RH50	HT81-U	RHU81	
50	25÷10										
70÷63	25÷1,5	C70-C25NST	21,0	26,4	17,5	200/25	HT51	RH50	HT81-U	RHU81	
50	25÷4	C50-C25ST	25,0	32,9	21,0	100/25					
50	50÷35	C50-C50ST	26,0	33,0	21,0	100/25	HT51	RH50	HT81-U	RHU81	
70÷50	40÷4	C70-C35ST	28,0	33,0	21,0	100/25					
70÷50	70÷35	C70-C70ST	28,0	34,0	21,0	100/25	HT51	RH50	HT81-U	RHU81	
100÷95	40÷4	C95-C35ST	29,0	40,6	26,0	50/25					
100÷95	70÷40	C95-C70ST	29,0	41,0	26,0	50/25	HT51	RH50	HT81-U	RHU81	
100÷95	100÷63	C95-C95ST	29,0	41,0	26,0	50/25					
125÷110	125÷25	C120-C120ST	30,0	45,0	28,0	50/25	HT51	RH50	HT81-U	RHU81	
160÷150	125÷25	C150-C120ST	31,0	45,0	28,0	50/25					
125	125										
150	150÷63	C150-C150ST	30,0	45,0	28,0	50/25					
125	125										
185	100÷16	C185-C95ST	31,0	45,0	28,0	50/25	HT51	RH50	HT81-U	RHU81	
185÷120	185÷120	C185-C185ST	22,6	68,0	34,0	30/15					
240÷150	120÷95	C240-C120ST	22,6	68,0	34,0	30/15					

*Given the small size, on these connectors, only the type is engraved

bright surface version

Conductor Size sqmm		Type	Dimensions mm			Quantity Box/Bag	Mechanical Tools	Hydraulic Tools			
Run	Tap		A	B	C			HT45-E	B450ND-BVE	B500NDE	HT81-U
6÷2,5	6÷1,5	C6-C6*	9,0	9,8	6,4	1.000/100	HP4-C10	B450ND-BVE	B500NDE	HT81-U	RHU81
10	10÷1,5	C10-C10*	12,0	12,6	8,4	500/100					
16	16÷1,5	C16-C16	17,0	19,4	12,0	500/100	HT45-E	B500E	HT81-U	RHU81	
25÷16	10÷1,5	C25-C10	17,0	19,8	13,0	400/50					
25	25÷16	C25-C25	17,0	21,4	13,0	300/50	HT51	RH50	HT81-U	RHU81	
40÷35	16÷1,5	C35-C16	21,0	24,6	15,4	200/25					
40÷35	40÷25	C35-C35	21,0	26,6	15,6	200/25	HT51	RH50	HT81-U	RHU81	
50	25÷10										
70÷63	25÷1,5	C70-C25N	21,0	26,4	17,5	200/25	HT51	RH50	HT81-U	RHU81	
50	25÷4	C50-C25	25,0	32,9	21,0	100/25					
50	50÷35	C50-C50	26,0	33,0	21,0	100/25	HT51	RH50	HT81-U	RHU81	
70÷50	40÷4	C70-C35	28,0	33,0	21,0	100/25					
70÷50	70÷35	C70-C70	28,0	34,0	21,0	100/25	HT51	RH50	HT81-U	RHU81	
100÷95	40÷4	C95-C35	29,0	40,6	26,0	50/25					
100÷95	70÷40	C95-C70	29,0	41,0	26,0	50/25	HT51	RH50	HT81-U	RHU81	
100÷95	100÷63	C95-C95	29,0	41,0	26,0	50/25					
125÷110	125÷25	C120-C120	30,0	45,0	28,0	50/25	HT51	RH50	HT81-U	RHU81	
160÷150	125÷25	C150-C120	31,0	45,0	28,0	50/25					
125	125										
150	150÷63	C150-C150	30,0	45,0	28,0	50/25					
125	125										
185	100÷16	C185-C95	31,0	45,0	28,0	50/25	HT51	RH50	HT81-U	RHU81	
185÷120	185÷120	C185-C185	22,6	68,0	34,0	30/15					
240÷150	120÷95	C240-C120	22,6	68,0	34,0	30/15					

*Given the small size, on these connectors, only the type is engraved



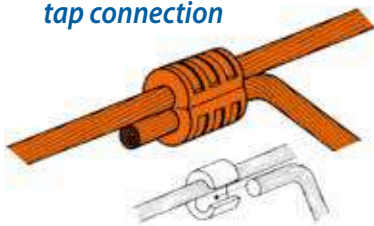
"C" connectors are manufactured from high purity copper profiles and are suitable for a variety of uses either to create an earthing network or tapping off from overhead distribution lines.

Each connector is marked as follows:

- Cembre trade mark
- Reference number
- Conductor size-Run
- Conductor size-Tap
- Number of crimps
- Die reference.

Details of the appropriate crimping tools and dies are shown on page 212.

Example of tap connection



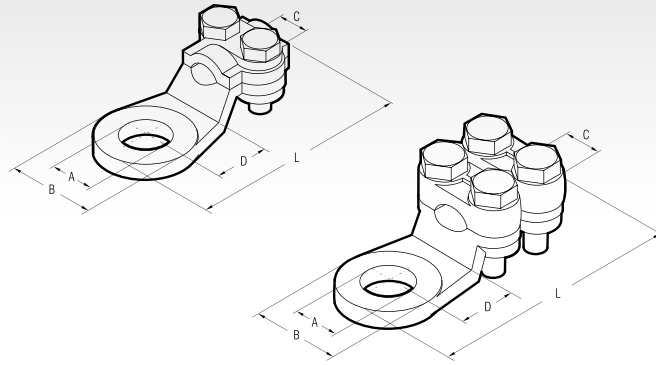
Example of joint connection



Example of joining two running conductors

Sezione Conduttore mm ²	Type
25-25	C35-C16
35-35	C35-C35
50-50	C70-C70
63-63	C95-C70
70-70	
95-95	C150-C120
120-120	C150-C150
120-120	C185-C95
125-125	





BRASS

Steel
ZINC PLATED-50°C
+150°C

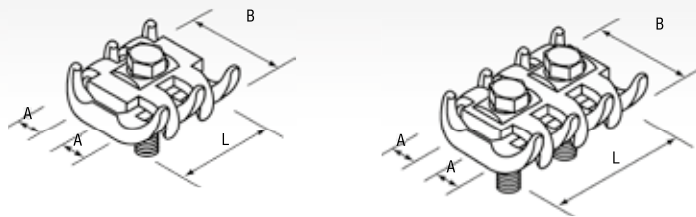
Material:
Brass CB754S EN 1982 Nickel plated.
Zinc plated Steel bolts.

2 bolt fixing lugs

Conductor Size sqmm	Type	A Bolt	Dimensions mm				Quantity
			B	C	D	L	
16	2155	M8	18,0	4,5	12,5	39	100
16	2171	M10	18,0	4,5	12,5	39	100
25	2156	M8	19,5	6,0	13,0	43	100
25	2172	M10	19,5	6,0	13,0	43	100
35	2157	M12	23,0	7,0	15,0	49	50
35	2173	M14	23,0	7,0	15,0	49	50
50	2174	M14	25,0	8,0	17,0	56	50

4 bolt fixing lugs

Conductor Size sqmm	Type	A Bolt	Dimensions mm				Quantity
			B	C	D	L	
50	2158	M12	23,5	8	16,0	57	50
75	2160	M12	28,0	10	20,0	65	25
75	2176	M16	28,0	10	20,0	65	25
100	2161	M12	31,0	13	17,0	66	25
125	2162	M15	33,0	14	18,0	71	25
150	2163	M14	34,0	16	19,5	75	25
175	2164	M15	36,0	16	21,0	78	25



Single bolt fixing

Conductor Size sqmm	Type	A for Cable mm	Dimensions mm		Quantity
			B	L	
6÷16	2323	3÷ 5	24	20	50
16÷50	2326	5÷ 8	30	25	50
35÷70	2329	7÷12	40	30	25



2 bolt fixing

Conductor Size sqmm	Type	A for Cable mm	Dimensions mm		Quantity
			B	L	
6÷16	2333	3÷ 5	24,5	30	50
16÷50	2336	5÷ 8	32,0	40	50
35÷70	2339	7÷12	40,0	44	25
50÷95	2342	8÷14	48,0	48	10
70÷150	2344	12÷16	51,0	53	10
150÷300	2346*	16÷22	66,0	66	5

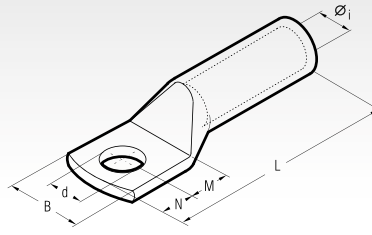
* Stainless Steel bolts

Material:
Brass CB754S EN 1982 Zinc plated
Steel bolts.
Zinc plated Steel nut.

2A-M

HEAVY DUTY COPPER TUBE TERMINALS

for Copper conductors



2A-M series terminals are made from high purity Copper tube, and are annealed.

They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications.

The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications.

The terminals are electrolytically Tin plated to prevent atmospheric corrosion.

Details of the appropriate crimping tools and dies are shown on pages 208 to 209.

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools	
			Øi	B	M	N	L	d				
16	8	2A3-M8	5,8	15,0	9,0	8,0	43,5	8,4	600/100	HN5	B15MDE	
	10	2A3-M10	5,8	18,0	11,0	10,0	47,5	10,5	500/100			
25	8	2A5-M8	7,0	15,0	9,0	8,0	51,0	8,4	400/100	HN-A25		
	10	2A5-M10	7,0	18,0	11,0	10,0	55,0	10,5	300/50			
25	12	2A5-M12	7,0	21,0	14,0	12,0	60,0	13,2	300/50	TN70SE		
	8	2A7-M8	8,9	17,0	9,0	8,0	53,0	8,4	250/50			
35	10	2A7-M10	8,9	19,0	11,0	10,0	57,0	10,5	250/50	TN70SE		
	12	2A7-M12	8,9	21,0	14,0	12,0	62,0	13,2	200/50			
50	10	2A10-M10	10,0	20,0	11,0	10,0	63,0	10,5	200/50	TN70SE		
	12	2A10-M12	10,0	21,0	14,0	12,0	68,0	13,2	150/50			
50	14	2A10-M14	10,0	25,0	16,0	14,0	72,0	15,0	150/50	TN70SE		
	16	2A10-M16	10,0	26,0	18,0	16,0	76,0	17,0	150/50			
63	10	2A14-M10	11,3	21,0	11,0	10,0	70,0	10,5	100/50	TN120 SE*		
	12	2A14-M12	11,3	22,0	14,0	12,0	75,0	13,2	100/50			
70	14	2A14-M14	11,3	25,0	16,0	14,0	79,0	15,0	100/50	TN120 SE*		
	16	2A14-M16	11,3	26,0	18,0	16,0	83,0	17,0	100/50			
95	10	2A19-M10	13,5	25,0	11,0	10,0	76,5	10,5	75/25	TN120 SE*		
	12	2A19-M12	13,5	25,0	14,0	12,0	81,5	13,2	75/25			
95	14	2A19-M14	13,5	25,0	16,0	14,0	85,5	15,0	75/25	TN120 SE*		
	16	2A19-M16	13,5	27,0	18,0	16,0	90,5	17,0	75/25			
95	20	2A19-M20	13,5	29,5	22,0	20,0	97,5	21,0	75/25	TN120 SE*		
	10	2A24-M10	15,2	28,5	11,0	10,0	82,0	10,5	50/25			
120	12	2A24-M12	15,2	28,5	14,0	12,0	87,0	13,2	50/25	TN120 SE*		
	14	2A24-M14	15,2	28,5	16,0	14,0	91,0	15,0	50/25			
125	16	2A24-M16	15,2	28,5	18,0	16,0	95,0	17,0	50/25	TN120 SE*		
	20	2A24-M20	15,2	30,0	22,0	20,0	103,0	21,0	50/25			
150	10	2A30-M10	16,7	31,5	13,0	11,0	92,0	10,5	50/25	TN120 SE*		
	12	2A30-M12	16,7	31,5	16,0	14,0	98,0	13,2	30/15			
150	14	2A30-M14	16,7	31,5	18,0	16,0	102,0	15,0	30/15	TN120 SE*		
	16	2A30-M16	16,7	31,5	19,0	17,0	104,0	17,0	30/15			
150	20	2A30-M20	16,7	31,5	22,0	20,0	110,0	21,0	30/15	TN120 SE*		
	12	2A37-M12	19,2	35,5	16,0	14,0	108,0	13,2	30/15			
185	14	2A37-M14	19,2	35,5	18,0	16,0	112,0	15,0	30/15	TN120 SE*		
	16	2A37-M16	19,2	35,5	19,0	17,0	114,0	17,0	30/15			
185	20	2A37-M20	19,2	35,5	22,0	20,0	120,0	21,0	30/15	TN120 SE*		
	12	2A48-M12	21,1	39,0	16,0	14,0	109,0	13,2	20/5			
240	14	2A48-M14	21,1	39,0	18,0	16,0	113,0	15,0	20/5	TN120 SE*		
	16	2A48-M16	21,1	39,0	19,0	17,0	115,0	17,0	20/5			
240	20	2A48-M20	21,1	39,0	22,0	20,0	121,0	21,0	25/5	TN120 SE*		
	12	2A60-M12	23,7	44,0	20,0	14,0	129,5	13,2	20/5			
300	14	2A60-M14	23,7	44,0	22,0	16,0	133,5	15,0	20/5	TN120 SE*		
	16	2A60-M16	23,7	44,0	22,0	19,0	136,5	17,0	20/5			
300	20	2A60-M20	23,7	44,0	24,0	23,0	142,5	21,0	20/5	TN120 SE*		
	12	2A80-M12	27,0	51,0	22,0	19,0	140,0	13,2	15/5			
400	14	2A80-M14	27,0	51,0	22,0	19,0	140,0	15,0	10/5	TN120 SE*		
	16	2A80-M16	27,0	51,0	22,0	19,0	140,0	17,0	10/5			
400	20	2A80-M20	27,0	51,0	24,0	23,0	146,0	21,0	15/5	TN120 SE*		
	16	2A100-M16*	30,3	56,5	22,0	19,0	147,0	17,0	10/1			
500	20	2A100-M20*	30,3	56,5	24,0	23,0	153,0	21,0	10/1	TN120 SE*		
	16	2A120-M16*	33,4	61,5	22,0	19,0	159,0	17,0	20/1			
630	20	2A120-M20*	33,4	61,5	24,0	23,0	165,0	21,0	20/1	TN120 SE*		
	800	2A160-M20*	38,0	72,0	24,0	23,0	187,0	21,0	12/1			
1000	20	2A200-M20*	44,0	80,0	24,0	23,0	202,0	21,0	6/1	TN120 SE*		

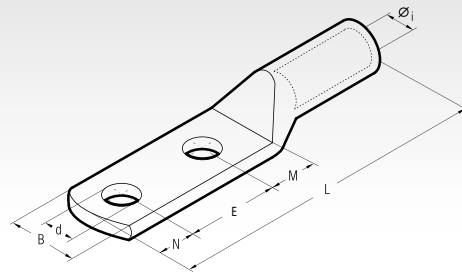
*See page 121

*Not UL approved

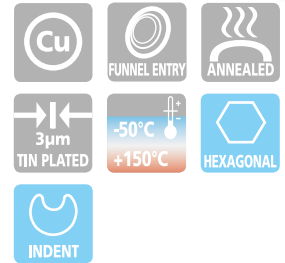
HIGH VOLTAGE TERMINALS

2A-2M

two hole fixing



Cond. Size sqmm	Ø Stud mm	Ref.	Dimensions mm							Quantity Box	Mechanical Tools	Hydraulic Tools				
			Øi	B	M	N	E	L	d			HT45-E	B550E	RH50	RHU81	
50	12	2A10-2M12	10,0	21,0	14,0	12,0	44,5	112,5	13,2	25	TN70SE	TN120SE	HT45-E	B550E	RH50	RHU81
70	12	2A14-2M12	11,3	22,0	16,0	14,0	44,5	123,5	13,2	25						
	14	2A14-2M14	11,3	25,0	18,0	16,0	44,5	127,5	15,0	25						
95	12	2A19-2M12	13,5	25,0	16,0	14,0	44,5	128,0	13,2	25						
	14	2A19-2M14	13,5	25,0	18,0	16,0	44,5	132,0	15,0	25						
120	12	2A24-2M12	15,2	28,5	16,0	14,0	44,5	135,5	13,2	25						
	14	2A24-2M14	15,2	28,5	18,0	16,0	44,5	139,5	15,0	25						
	16	2A24-2M16	15,2	28,5	18,0	17,0	44,5	140,5	17,0	25						
150	12	2A30-2M12	16,7	31,5	16,0	14,0	44,5	142,5	13,2	15						
	14	2A30-2M14	16,7	31,5	18,0	16,0	44,5	146,5	15,0	15						
	16	2A30-2M16*	16,7	31,5	19,0	17,0	44,5	148,5	17,0	15						
185	12	2A37-2M12	19,2	35,5	16,0	14,0	44,5	152,5	13,2	15						
	14	2A37-2M14	19,2	35,5	18,0	16,0	44,5	156,5	15,0	15						
	16	2A37-2M16	19,2	35,5	19,0	17,0	44,5	158,5	17,0	15						
240	12	2A48-2M12	21,1	39,0	16,0	14,0	44,5	153,5	13,2	5						
	14	2A48-2M14	21,1	39,0	18,0	16,0	44,5	157,5	15,0	5						
	16	2A48-2M16	21,1	39,0	19,0	17,0	44,5	159,5	17,0	5						
300	12	2A60-2M12	23,7	44,0	20,0	14,0	44,5	174,0	13,2	5						
	14	2A60-2M14	23,7	44,0	22,0	16,0	44,5	178,0	15,0	5						
	16	2A60-2M16	23,7	44,0	19,0	17,0	44,5	176,0	17,0	5						
400	12	2A80-2M12	27,0	51,0	20,0	14,0	44,5	177,5	13,2	5						
	14	2A80-2M14	27,0	51,0	22,0	16,0	44,5	181,5	15,0	5						
	16	2A80-2M16	27,0	51,0	22,0	19,0	44,5	184,5	17,0	5						
500	12	2A100-2M12*	30,3	56,5	20,0	14,0	44,5	178,5	13,2	5						
	14	2A100-2M14*	30,3	56,5	22,0	16,0	44,5	182,5	15,0	5						
	16	2A100-2M16*	30,3	56,5	22,0	19,0	44,5	185,5	17,0	5						
630	12	2A120-2M12*	33,4	61,5	20,0	14,0	44,5	196,5	13,2	5						
	14	2A120-2M14*	33,4	61,5	22,0	19,0	44,5	200,5	15,0	5						
	16	2A120-2M16*	33,4	61,5	22,0	19,0	44,5	203,5	17,0	5						
800	12	2A160-2M12*	38,0	72,0	20,0	14,0	44,5	218,5	13,2	1						
	14	2A160-2M14*	38,0	72,0	22,0	19,0	44,5	225,5	15,0	1						
	16	2A160-2M16*	38,0	72,0	24,0	19,0	44,5	227,5	17,0	1						
1000	12	2A200-2M12*	44,0	80,0	20,0	14,0	44,5	233,5	13,2	1						
	14	2A200-2M14*	44,0	80,0	22,0	16,0	44,5	237,5	15,0	1						
	16	2A200-2M16*	44,0	80,0	22,0	19,0	44,5	240,5	17,0	1						
	20	2A200-2M20*	44,0	80,0	24,0	23,0	44,5	246,5	21,0	1						



2A-2M.. series lugs are manufactured from electrolytic Copper tube conforming to EN13600.

The tube dimensions are designed to optimise electrical conductivity and mechanical strength.

Double length barrels enhance electrical and mechanical performance in heavy duty applications.

Palms feature double stud holes at standard 44.5mm centres.

Other configurations are available upon request.

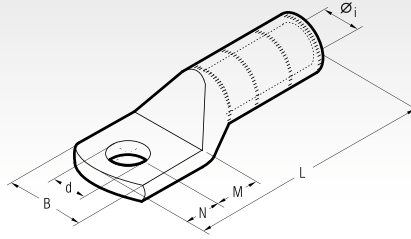
Lugs are annealed to ensure ductility and satisfactory performance when subjected to deformation and vibration.

The absence of an inspection hole prevents the ingress of water or moisture into the crimped joint making these terminals suitable for outdoor applications.

Lugs are electrolytically Tin plated to avoid oxidation.

Details of the appropriate crimping tools and dies are shown on pages 208 to 209.

*Not UL approved



Series CA-M terminals are designed for high voltage applications up to 33 kV.

They are manufactured from high purity Copper tube, annealed and Tin plated.

The extended barrel enhances both electrical and mechanical performance.

The absence of an inspection hole prevents moisture entry into the crimped joint and makes these terminals suitable for outdoor applications.

Details of the appropriate crimping tools and dies are shown on page 212.

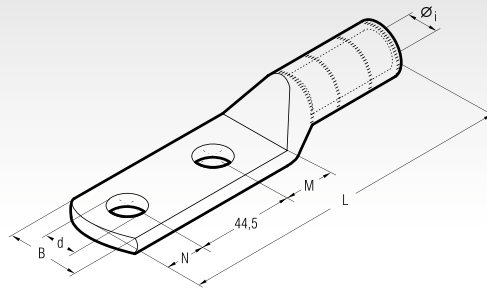
Conductor Size (sqmm) & Format	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools
			Ø1	B	M	N	L	d		
25 R/BR/BS*	8	CA25-M8	6,8	14,0	9,0	8,0	65,0	8,4	300/50	HT45-E B450ND-BVE HT81-U RHU81 ECW-H3D RHU520
	10	CA25-M10	6,8	18,0	13,0	11,0	72,0	10,5	200/50	
	12	CA25-M12	6,8	21,0	16,0	14,0	78,0	13,2	200/50	
30 RC/S ÷ 40 S	12	CA40S-M12	8,2	21,0	16,0	14,0	79,0	13,2	150/50	
	16	CA40S-M16	8,2	26,0	19,0	17,0	85,0	17,0	100/50	
35 BR/BS*	10	CA35-M10	8,3	21,0	13,0	11,0	73,0	10,5	150/50	
	16	CA35-M16	8,3	26,0	19,0	17,0	85,0	17,0	150/50	
50 RC	12	CA50R-M12	8,7	20,5	16,0	14,0	79,0	13,2	150/50	
	16	CA50R-M16	8,7	25,0	19,0	17,0	85,0	17,0	100/50	
50 S	12	CA50S-M12	9,5	21,0	16,0	14,0	79,0	13,2	150/50	
	16	CA50S-M16	9,5	26,0	19,0	17,0	85,0	17,0	100/50	
50 BR/BS*	10	CA50-M10	9,5	21,0	13,0	11,0	73,0	10,5	150/50	
	12	CA50-M12	9,5	21,0	16,0	14,0	79,0	13,2	150/50	
	14	CA50-M14	9,5	25,0	18,0	16,0	83,0	15,0	100/50	
	16	CA50-M16	9,5	26,0	19,0	17,0	85,0	17,0	100/50	
63 S ÷ 70 S	12	CA70S-M12	11,0	28,0	16,0	14,0	81,2	13,2	50/25	
	16	CA70S-M16	11,0	30,0	19,0	17,0	87,2	17,0	50/25	
70 BR/BS*	10	CA70S-M10	11,0	26,0	13,0	11,0	75,2	10,5	50/25	
	12	CA70S-M12	11,0	28,0	16,0	14,0	81,2	13,2	50/25	
	14	CA70S-M14	11,0	28,0	18,0	16,0	85,2	15,0	50/25	
	16	CA70S-M16	11,0	30,0	19,0	17,0	87,2	17,0	50/25	
80 S ÷ 95 RC	12	CA95R-M12	12,0	28,0	16,0	14,0	91,0	13,2	50/25	
	14	CA95R-M14	12,0	29,0	18,0	16,0	95,0	15,0	50/25	
95 S ÷ 100 S	12	CA95S-M12	13,5	28,0	16,0	14,0	91,0	13,2	50/25	
	14	CA95S-M14	13,5	29,0	18,0	16,0	94,5	15,0	50/25	
	16	CA95S-M16	13,5	30,0	20,0	17,0	97,0	17,0	50/25	
95 BR/BS*	10	CA95-M10	13,5	28,0	13,0	11,0	85,0	10,5	50/25	
	12	CA95-M12	13,5	28,0	16,0	14,0	91,0	13,2	50/25	
	16	CA95-M16	13,5	30,0	20,0	17,0	97,0	17,0	50/25	
120 RC/S ÷ 150 RC	12	CA150R-M12	15,0	31,0	16,0	14,0	97,0	13,2	30/15	
	14	CA150R-M14	15,0	31,0	18,0	16,0	101,0	15,0	30/15	
120 BR/BS*	12	CA120-M12	15,0	31,0	16,0	14,0	97,0	13,2	30/15	
	16	CA120-M16	15,0	31,0	19,0	17,0	103,0	17,0	30/15	
150 S ÷ 160 RC	12	CA150S-M12	16,5	32,0	16,0	14,0	97,0	13,2	30/15	
	14	CA150S-M14	16,5	32,0	18,0	16,0	101,0	15,0	30/15	
150 BR/BS*	12	CA150-M12	16,5	32,0	16,0	14,0	97,0	13,2	30/15	
	16	CA150-M16	16,5	32,0	19,0	17,0	103,0	17,0	30/15	
160 S ÷ 200 RC	14	CA200R-M14	17,0	32,5	18,0	16,0	101,0	15,0	30/15	
	16	CA200R-M16	17,0	32,5	19,0	17,0	103,0	17,0	30/15	
185 BR/BS*	12	CA185-M12	18,0	33,5	16,0	14,0	97,0	13,2	30/15	
	16	CA185-M16	18,0	33,5	19,0	17,0	103,0	17,0	30/15	
200 S ÷ 240 RC	14	CA240R-M14	19,2	43,0	18,0	16,0	107,0	15,0	15/5	
240 S ÷ 315 RC	14	CA315R-M14	21,5	43,0	18,0	16,0	105,0	15,0	15/5	
	12	CA240-M12	20,5	42,0	16,0	14,0	103,0	13,2	15/5	
240 BR/BS*	16	CA240-M16	20,5	42,0	19,0	17,0	109,0	17,0	15/5	
	20	CA240-M20	20,5	42,0	22,0	20,0	115,0	21,0	15/5	
	12	CA300-M12	23,0	43,5	16,0	14,0	109,5	13,2	15/5	
300 BR/BS*	16	CA300-M16	23,0	43,5	19,0	17,0	115,5	17,0	15/5	
	20	CA300-M20	23,0	43,5	22,0	20,0	121,5	21,0	15/5	
315 S	14	CA315S-M14	23,7	44,0	18,0	16,0	105,0	15,0	15/5	

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = IEC228 (BS6360) Round, BS* = IEC228 (BS6360) Sector
 * = Pre-rounding required, consult Cembre for appropriate die set

HIGH VOLTAGE TERMINALS

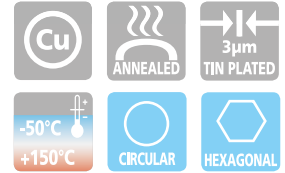
CA-2M

two hole fixing



Conductor Size (sqmm) & Format	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools
			Øi	B	M	N	L	d		
25 R	8	CA25-2M8	6,8	14,0	10,0	11,0	113,5	8,4	200/50	HT45-E B450ND-BVE HT51 RH50 B500E B500DE HT81-U RHU81 HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
	12	CA25-2M12	6,8	21,0	16,0	14,0	122,5	13,2	150/50	
25 BR/BS*	8	CA25-2M8	6,8	14,0	10,0	11,0	113,5	8,4	200/50	
	10	CA25-2M10	6,8	18,0	13,0	11,0	116,5	10,5	150/50	
30 RC/S ÷ 40 S	12	CA40S-2M12	8,2	21,5	16,0	14,0	123,5	13,2	100/50	
	12	CA35-2M12	8,3	21,5	16,0	14,0	123,5	13,2	100	
50 RC	12	CA50R-2M12	8,7	20,5	16,0	14,0	123,5	13,2	100/50	
50 S	12	CA50S-2M12	9,5	21,0	16,0	14,0	123,5	13,2	100/50	
50 BR/BS*	12	CA50-2M12	9,5	21,0	16,0	14,0	123,5	13,2	90/3	
63 S ÷ 70 S	12	CA70S-2M12	11,0	27,0	16,0	14,0	127,7	13,2	50/25	
70 BR/BS*	12	CA70S-2M12	11,0	27,0	16,0	14,0	127,7	13,2	50/25	
80 S ÷ 95 RC	14	CA95R-2M14	12,0	28,0	18,0	16,0	139,5	15,0	30/15	
95 S ÷ 100 S	14	CA95S-2M14	13,5	29,0	18,0	16,0	139,5	15,0	30/15	
95 BR/BS*	12	CA95-2M12	13,5	28,0	16,0	14,0	135,5	13,2	30/15	
120 RC/S ÷ 150 RC	14	CA150R-2M14	15,0	31,0	18,0	16,0	145,5	15,0	30/15	
120 BR/BS*	12	CA120-2M12	15,0	31,0	16,0	14,0	141,5	13,2	30/15	
150 S ÷ 160 RC	14	CA150S-2M14	16,5	32,0	18,0	16,0	145,5	15,0	30/15	
150 BR/BS*	12	CA150-2M12	16,5	32,0	16,0	14,0	141,5	13,2	30/15	
160 S ÷ 200 RC	14	CA200R-2M14	17,0	32,5	18,0	16,0	145,0	15,0	30/15	
185 BR/BS*	12	CA185-2M12	18,0	32,5	16,0	14,0	141,5	13,2	30/15	
200 S ÷ 240 RC	14	CA240R-2M14	19,2	43,0	18,0	16,0	151,5	15,0	15/5	
240 S ÷ 315 RC	14	CA315R-2M14	21,5	43,0	18,0	16,0	149,5	15,0	20/5	
240 BR/BS*	12	CA240-2M12	20,5	43,0	16,0	14,0	147,5	13,2	15/5	
300 BR/BS*	12	CA300-2M12	23,0	43,0	16,0	14,0	145,5	13,2	15/5	
315 S	14	CA315S-2M14	23,7	44,0	18,0	16,0	149,5	15,0	20/5	

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = IEC228 (BS6360) Round, BS* = IEC228 (BS6360) Sector
* = Pre-rounding required, consult Cembre for appropriate die set



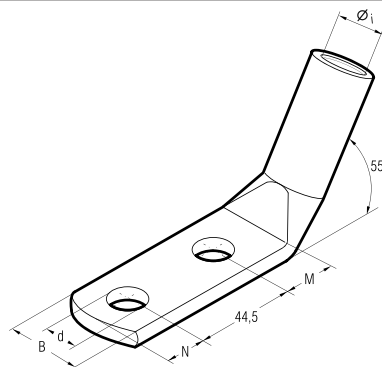
CA-2M Copper Tube Terminal Lugs are designed for high voltage applications up to 33kV. Manufactured from high purity Copper tube, annealed and Tin plated.

The extended barrel enhances electrical and mechanical performance. The absence of an inspection hole prevents moisture entry into the crimped joint. Featuring an extended palm with two fixing holes at 44.5 mm centres.

Details of the appropriate crimping tools and dies are shown on page 212.

HIGH VOLTAGE TERMINALS

palm bent at 55° - two hole fixing



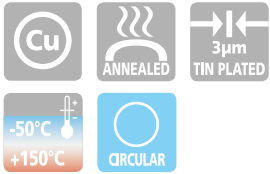
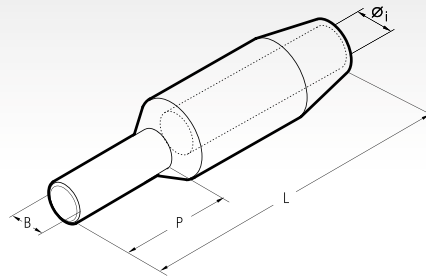
Conductor Size (sqmm) & Format	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools
			Øi	B	M	N	d			
400 R	14	2A80-2M14/55°	27,0	51,0	22	16	15	10/5	HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520	
600 R ÷ 630 R	14	2A120-2M14/55°	33,4	61,5	22	16	15	15/3		

R = Round conductors



The 2A-2M/55° Copper Tube Terminal Lugs have the same characteristics as the CA-2M and 2A-2M ranges, with the additional feature of the palm bent at 55°.

Details of the appropriate crimping tools and dies are shown on page 208-209.



MT-C series connectors are designed for high voltage applications up to 33 kV.

They are manufactured from high purity Copper, annealed and Tin plated.

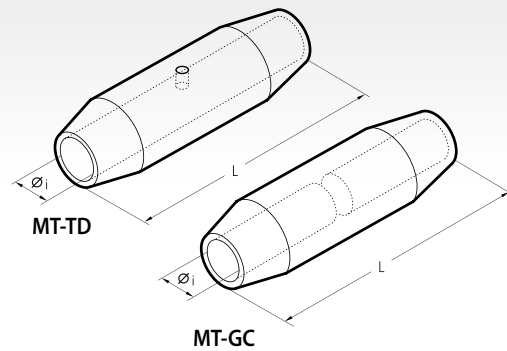
The extended barrel enhances both electrical and mechanical performance.

The stalk or pin makes these connectors ideal for terminating conductors into contact blocks.

Details of the appropriate crimping tools and dies are shown on page 212.

Conductor Size (sqmm) & Format	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools					
		Øi	B	P	L							
25 R	MT25-C8	6,8	8,0	35,0	80,0	90/3	HT45-E B450ND-BVE	HT51 RH50 B500E B500NDE B550E	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
	MT40S-C8	8,2	8,0	35,0	80,0	90/3						
30 RC/S ÷ 40 S	MT40S-C10	8,2	10,0	35,0	80,0	90/3						
	MT40S-C14-80	8,2	14,0	80,0	123,0	30/3						
	MT35-C8	8,2	8,0	35,0	80,0	90/3						
35 BR/BS*	MT35-C10	8,2	10,0	35,0	80,0	90/3						
	MT35-C14-80	8,2	14,0	80,0	123,0	30/3						
	MT50R-C8	8,8	8,0	35,0	80,0	90/3						
50 RC	MT50R-C10	8,8	10,0	35,0	80,0	90/3						
	MT50S-C8	9,5	8,0	35,0	80,0	90/3						
50 S	MT50S-C10	9,5	10,0	35,0	80,0	90/3						
	MT50S-C14-80	9,5	14,0	80,0	123,0	30/3						
	MT50-C8	9,5	8,0	35,0	80,0	90/3						
50 BR/BS*	MT50-C10	9,2	10,0	35,0	80,0	90/3						
	MT50-C14-80	9,5	14,0	80,0	123,0	90/3						
	MT70S-C10	11,2	10,0	35,0	90,0	30/3						
63 S ÷ 70 S	MT70S-C10	11,2	10,0	35,0	90,0	30/3						
70 BR/BS*	MT70-C10	11,2	10,0	35,0	90,0	30/3						
	MT95R-C10	12,0	10,0	45,0	110,0	60/3						
80 S ÷ 95 RC	MT95R-C12	12,0	12,0	45,0	110,0	60/3						
	MT95S-C10	13,5	10,0	45,0	110,0	60/3						
95 S ÷ 100 S	MT95S-C12	13,5	12,0	45,0	110,0	60/3						
	MT95S-C14-80	13,5	14,0	80,0	145,0	60/3						
	MT95-C10	13,5	10,0	45,0	110,0	60/3						
95 BR/BS*	MT95-C12	13,5	12,0	45,0	110,0	60/3						
	MT95-C14-80	13,5	14,0	80,0	145,0	60/3						
	MT150R-C12	15,0	12,0	45,0	110,0	60/3						
120 RC/S ÷ 150 RC	MT150R-C16	15,0	16,0	45,0	110,0	30/3						
	MT120-C12	15,0	12,0	45,0	110,0	60/3						
120 BR/BS*	MT120-C16	15,0	16,0	45,0	110,0	60/3						
	MT150S-C12	16,5	12,0	45,0	110,0	60/3						
150 S ÷ 160 RC	MT150S-C14-80	16,5	14,0	80,0	145,0	45/3						
	MT150S-C16	16,5	16,0	45,0	110,0	60/3						
	MT150-C10	16,5	10,0	45,0	110,0	60/3						
150 BR/BS*	MT150-C12	16,5	12,0	45,0	110,0	60/3						
	MT150-C14-80	16,5	14,0	80,0	145,0	45/3						
	MT150-C16	16,5	16,0	45,0	110,0	60/3						
160 S ÷ 200 RC	MT200R-C10	17,0	10,0	45,0	110,0	30/3						
	MT200R-C16	17,0	16,0	45,0	110,0	30/3						
185 BR/BS*	MT185-C10	18,0	10,0	45,0	110,0	30/3						
	MT185-C16	18,0	16,0	45,0	110,0	30/3						
200 S ÷ 240 RC	MT240R-C12	19,5	12,0	50,0	115,0	30/3						
	MT240R-C16	19,5	16,0	50,0	115,0	30/3						
240 S ÷ 315 RC	MT315R-C16	21,5	16,0	50,0	115,0	30/3						
	MT240-C12	20,5	12,0	45,0	110,0	30/3						
240 BR/BS*	MT240-C16	20,5	16,0	50,0	115,0	30/3						
	MT300-C16	23,0	16,0	50,0	115,0	30/3						
300 BR/BS*	MT300-C16	23,0	16,0	50,0	115,0	30/3						
315 S	MT315S-C16	24,0	16,0	60,0	130,0	30/3						

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = IEC228 (BS6360) Round, BS* = IEC228 (BS6360) Sector
 * = Pre-rounding required, consult Cembre for appropriate die set



Conductor Size (sqmm) & Format	Type	Type	Dimensions mm		Quantity Box/Bag	Hydraulic Tools			
			Øi	L		HT45-E B450ND-BYE	HT81-U RHU81	HT120 and tools and heads with 130 kN crimping force	ECW-H3D RHU520
25 R/BR/BS*	MT25-TD	MT25-GC	6,8	60,0	90/3				
30 RC/S ÷ 40 S	MT40S-TD	MT40S-GC	8,2	60,0	90/3				
30 BR/BS*	MT35-TD	MT35-GC	8,2	60,0	90/3				
50 RC	MT50R-TD	MT50R-GC	8,7	60,0	90/3				
50 S	MT50S-TD	MT50S-GC	9,5	60,0	90/3				
50 BR/BS*	MT50-TD	MT50-GC	9,5	60,0	90/3				
63 S ÷ 70 S	MT70S-TD	MT70S-GC	11,0	70,0	30/3				
70 BR/BS*	MT70-TD	MT70-GC	11,0	70,0	30/3				
80 S ÷ 95 RC	MT95R-TD	MT95R-GC	12,0	80,0	30/3				
95 S ÷ 100 S	MT95S-TD	MT95S-GC	13,5	80,0	30/3				
95 BR/BS*	MT95-TD	MT95-GC	13,5	80,0	30/3				
120 RC/S ÷ 150 RC	MT150R-TD	MT150R-GC	15,0	80,0	30/3				
120 BR/BS*	MT120-TD	MT120-GC	15,0	80,0	30/3				
150 S ÷ 160 RC	MT150S-TD	MT150S-GC	16,5	80,0	30/3				
150 BR/BS*	MT150-TD	MT150-GC	16,5	80,0	30/3				
160 S ÷ 200 RC	MT200R-TD	MT200R-GC	17,0	100,0	30/3				
185 BR/BS*	MT185-TD	MT185-GC	18,0	100,0	30/3				
200 S ÷ 240 RC	MT240R-TD	MT240R-GC	19,2	100,0	30/3				
240 S ÷ 315 RC	MT315R-TD	MT315R-GC	21,5	100,0	30/3				
240 BR/BS*	MT240-TD	MT240-GC	20,5	100,0	30/3				
300 BR/BS*	MT300-TD	MT300-GC	23,0	100,0	30/3				
315 S	MT315S-TD	MT315S-GC	23,7	100,0	30/3				
400 BR/BS*	MT400-TD	MT400-GC	27,0	120,0	15/3				
500 R	MT500-TD		30,3	118,0	15/3				
600 R ÷ 630 R	MT630-TD		33,4	130,0	9/3				

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = IEC228 (BS6360) Round, BS* = IEC228 (BS6360) Sector
* = Pre-rounding required, consult Cembre for appropriate die set



MT-TD and MT-GC series connectors are designed to join conductors in high voltage applications up to 33 kV.

They are manufactured from high purity Copper, annealed and Tin plated.

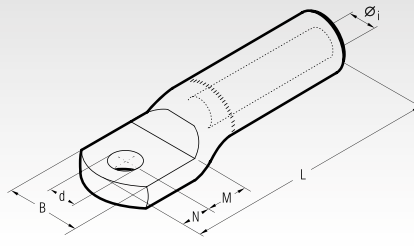
MT-GC series feature a solid stop which forms a barrier between the two conductors being joined, this prevents the migration of oils or greases, which may be present, in one cable contaminating the other cable.

MT-TD connectors are unblocked and are suitable for joining cables of the same type.

Details of the appropriate crimping tools and dies are shown on page 212.

AA-M

ALUMINIUM TERMINALS



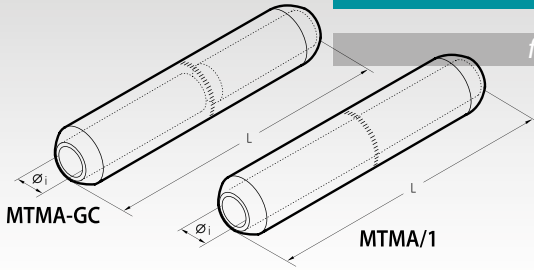
AA-M series terminals are made from Aluminium of a purity equal to or greater than 99,5%. They are designed to accept a variety of conductor forms especially low stranded compacted conductors. Non circular conductors may require pre-rounding prior to introduction to the terminal. Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium. Details of the appropriate crimping tools and dies are shown on page 213.

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools		
			Øi	B	M	N	L	d				
16	8	AA16-M8	5,5	21	13	11	77,0	8,4	60/3	HT131-UC	RHU131-C	B1300-UC
25	8	AA25-M8	6,5	21	13	11	77,0	8,4	60/3			
35	8	AA35-M8	8,0	23	13	11	77,5	8,4	60/3			
	10	AA35-M10	8,0	23	13	11	77,5	10,5	60/3			
50	12	AA50-M12	9,0	26	16	14	91,0	13,2	60/3			
	14	AA50-M14	9,0	26	18	16	95,0	15,0	60/3			
70	12	AA70-M12	11,0	27	16	14	91,0	13,2	45/3			
	14	AA70-M14	11,0	27	18	16	95,0	15,0	45/3			
95	12	AA95-M12	12,5	27	16	14	91,0	13,2	45/3			
	14	AA95-M14	12,5	27	18	16	95,0	15,0	45/3			
120	12	AA120-M12	13,7	35	16	14	115,0	13,2	30/3			
	14	AA120-M14	13,7	35	18	16	119,0	15,0	30/3			
150	12	AA150-M12	15,5	34	16	14	115,0	13,2	30/3			
	14	AA150-M14	15,5	34	18	16	119,0	15,0	30/3			
185	12	AA185-M12	17,0	42	20	14	122,0	13,2	18/3			
	14	AA185-M14	17,0	42	22	16	126,0	15,0	18/3			
240	12	AA240-M12	19,5	44	20	14	122,0	13,2	15/3			
	14	AA240-M14	19,5	44	22	16	126,0	15,0	15/3			
300	12	AA300-34M12	22,5	47	22	14	130,0	13,2	15/3	HT120	HT131-C	RHC131
	14	AA300-34M14	22,5	47	22	16	132,0	15,0	15/3			
	16	AA300-34M16	22,5	47	22	17	133,0	17,0	15/3			
	16	AA300-M16	23,3	54	19	17	172,0	17,0	12/3			
400	16	AA400-M16	26,0	56	19	17	172,0	17,0	12/3	ECW-H3D	RHU 230-630	
500	16	AA500-40M16	29,1	57	22	19	177,0	17,0	12/3			
630	16	AA630-M16	32,5	70	22	19	177,0	17,0	9/3			



THROUGH CONNECTORS

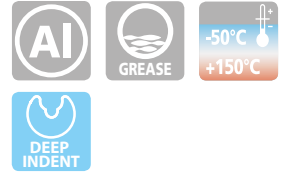
for Aluminium conductors



MTMA-GC MTMA/1



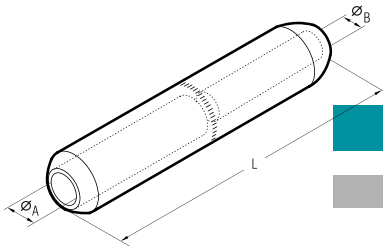
Conductor Size sqmm	Type	Type	Dimensions mm			Quantity Box/Bag	Hydraulic Tools		
			øi	L					
10	MTMA10-GC		4,3	90,5	60/3	B1300-UC	HT120 HT131-C RHC131	ECW-H3D	RHU230-630
16	MTMA16-GC	MTMA16/1	5,5	90,5	60/3				
25	MTMA25-GC	MTMA25/1	6,5	90,5	60/3				
35	MTMA35-GC	MTMA35/1	8,0	90,5	60/3				
	MTMA35-20-GC		8,0	106,5	30/3				
50	MTMA50-GC	MTMA50/1	9,0	106,5	30/3				
70	MTMA70-GC	MTMA70/1	11,0	106,5	30/3				
	MTMA95-GC		12,5	110,0	30/3				
95		MTMA95/1	12,5	106,5	30/3				
	MTMA120-GC	MTMA120/1	13,7	133,0	30/3				
150	MTMA150-GC		15,5	135,0	30/3				
		MTMA150/1	15,5	133,5	30/3				
185	MTMA185-GC	MTMA185/1	17,0	143,5	15/3				
240	MTMA240-GC	MTMA240/1	19,5	143,5	15/3				
	MTMAD300-GC		22,5	144,5	15/3				
300		MTMAD300/1	22,5	135,0	15/3				
	MTMA300-GC		23,3	218,0	15/3				
400		MTMA400/1	26,0	218,0	15/3				
500	MTMA500-GC		29,1	218,5	15/3				
		MTMA500-40/1	29,1	218,0	15/3				
630		MTMA630/1	32,5	218,5	12/3				



MTMA-GC series through connectors are made from Aluminium of a purity equal to or greater than 99,5%. They feature a solid stop which creates a barrier between the two sides of conductors to be joined. Barrels are capped and filled with grease so as to avoid oxidation of the connector. MTMA/1 series through connectors are unblocked and are suitable for joining cables of the same type. Details of the appropriate crimping tools and dies are shown on pages 214-215.

REDUCER THROUGH CONNECTORS

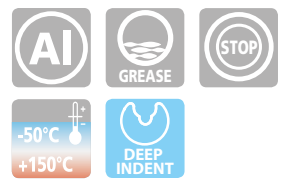
for Aluminium or Copper conductors



MTMA-GC



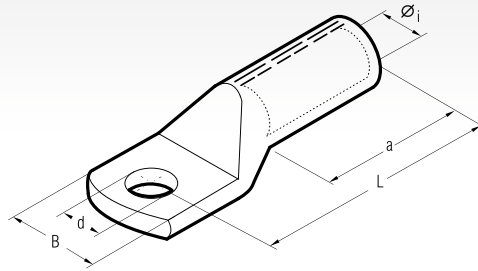
Conductor Size sqmm		Type	Dimensions mm			Quantity Box/Bag	Hydraulic Tools			
Side A Al	Side B Al/Cu		øA	øB	L					
16	10	MTMA 16-10-GC	5,5	4,3	90,5	60/3	B1300-UC	HT120 HT131-C RHC131	ECW-H3D	RHU230-630
		MTMA 25-10-GC	6,5	4,3	90,5	60/3				
25	16	MTMA 25-16-GC	6,5	5,5	90,5	60/3				
		MTMA 50-25-GC	9,0	6,5	106,5	30/3				
50	35	MTMA 50-35-GC	9,0	8,0	106,5	30/3				
		MTMA 70-35-GC	11,0	8,0	106,5	30/3				
70	50	MTMA 70-50-GC	11,0	9,0	106,5	30/3				
		MTMA 95-50-GC	12,5	9,0	109,4	30/3				
95	70	MTMA 95-70-GC	12,5	11,0	106,5	30/3				
		MTMA 120-70-GC	13,7	11,0	133,0	30/3				
120	95	MTMA 120-95-GC	13,7	12,5	133,0	30/3				
		MTMA 150-70-GC	15,5	11,0	133,0	30/3				
150	95	MTMA 150-95-GC	15,5	12,5	134,4	15/3				
		MTMA 150-120-GC	15,5	13,7	133,0	15/3				
		MTMA 185-120-GC	17,0	13,7	143,5	15/3				
185	150	MTMA 185-150-GC	17,0	15,5	143,5	15/3				
		MTMA 240-150-GC	19,5	15,5	143,5	15/3				
		MTMA 240-185-GC	19,5	17,0	143,5	15/3				
240	95	MTMAD 300-95-GC	22,5	12,5	144,5	15/3				
		MTMA 400-240-GC	26,0	19,5	218,0	15/3				
		MTMA 400-300-GC	26,0	23,3	218,0	15/3				
300	150	MTMAD 300-150-GC	22,5	15,5	144,5	15/3				
		MTMAD 300-185-GC	22,5	17,0	144,5	15/3				
		MTMAD 300-240-GC	22,5	19,5	144,5	15/3				
400	240	MTMA 400-240-GC	26,0	19,5	218,0	15/3				
		MTMA 400-300-GC	26,0	23,3	218,0	15/3				
		MTMA 500-300-GC	29,1	23,3	218,5	12/3				
500	400	MTMA 500-400-GC	29,1	26,0	218,5	12/3				



MTMA-GC series reducer through connectors are manufactured to the same specification as MTMA-GC series through connectors. Details of the appropriate crimping tools and dies are shown on pages 214-215.

for non-tension connections on Aluminium conductors according to DIN EN 50182

Tube dimensions according to DIN 46329



Terminals type AAD.-M.. are made from Aluminium tube of a purity equal or greater than 99,5%. They are suitable for Aluminium conductors according to DIN EN 50182, up to 10 kV.

All terminals are filled with a special grease that avoids Aluminium oxidation after crimping thereby assuring an optimal compression.

Barrel is closed with a cap for storage and transport.

Bright surface finish

The following data is stamped on the terminal:

- Cembre logo
- Terminal description
- Section
- Fixing bolt size
- Number and position of crimps
- Cembre Die reference according to DIN 48083

Details of the appropriate crimping tools and dies are shown on page 218.

Conductor Size	Ø Stud		Ref.	Code	Dimensions mm					Quantity Bag	Hydraulic Tools
	rm sm	re se			mm	mm	Øi	B	L		
16	25	8	AA16-M8	12	5,8	18	52	8,5	32	50	HT45-E B450ND-BVE HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU 450 RHU 520
		10	AA16-M10	12	5,8	18	52	10,5	32	50	
25	35	8	AA25-M8	12	6,8	19	60	8,5	37	50	
		10	AA25-M10	12	6,8	19	60	10,5	37	50	
35	50	8	AA35-M8	14	8,0	21	67	8,5	42	35	
		10	AA35-M10	14	8,0	21	67	10,5	42	35	
		12	AA35-M12	14	8,0	21	67	13,0	42	35	
50	70	8	AA50-M8	16	9,8	25	72	8,5	42	30	
		10	AA50-M10	16	9,8	25	72	10,5	42	30	
		12	AA50-M12	16	9,8	25	72	13,0	42	30	
70	95	10	AA70-M10	18	11,2	28	83	10,5	52	15	
		12	AA70-M12	18	11,2	28	83	13,0	52	15	
		16	AA70-M16	18	11,2	28	83	17,0	52	15	
95	120	10	AA95-M10	22	13,2	32	90	10,5	55	10	
		12	AA95-M12	22	13,2	32	90	13,0	55	10	
		16	AA95-M16	22	13,2	34	90	17,0	55	10	
120	150	10	AA120-M10	22	14,7	32	91	10,5	55	10	
		12	AA120-M12	22	14,7	32	91	13,0	55	10	
		16	AA120-M16	22	14,7	34	91	17,0	55	10	
150	185	10	AA150-M10	25	16,5	35	104	10,5	60	8	
		12	AA150-M12	25	16,5	35	104	13,0	60	8	
		16	AA150-M16	25	16,5	35	104	17,0	60	8	
		20	AA150-M20	25	16,5	41	104	21,0	60	8	
185	240	12	AA185-M12	28	18,3	40	105	13,0	60	15	
		16	AA185-M16	28	18,3	40	105	17,0	60	15	
		20	AA185-M20	28	18,3	40	105	21,0	60	15	
240	300	12	AA240-M12	32	21,0	45	119	13,0	70	12	
		16	AA240-M16	32	21,0	45	119	17,0	70	12	
		20	AA240-M20	32	21,0	45	119	21,0	70	12	
300		12	AA300-M12	34	23,3	49	125	13,0	70	9	
		16	AA300-M16	34	23,3	49	125	17,0	70	9	
		20	AA300-M20	34	23,3	49	125	21,0	70	9	
400		12	AA400-M12	38	26,0	58	140	13,0	100	3	
		16	AA400-M16	38	26,0	58	140	17,0	100	3	
		20	AA400-M20	38	26,0	58	140	21,0	100	3	
500		12	AA500-M12	44	29,0	63	160	13,0	100	3	
		16	AA500-M16	44	29,0	63	160	17,0	100	3	
		20	AA500-M20	44	29,0	63	160	21,0	100	3	

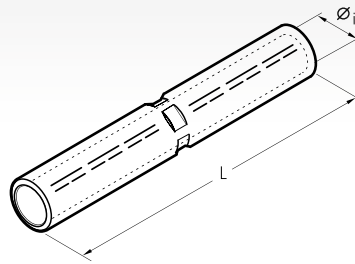
rm = round stranded
sm = sector stranded
re = round solid
se = sector solid

ALUMINIUM THROUGH CONNECTORS

DSVA

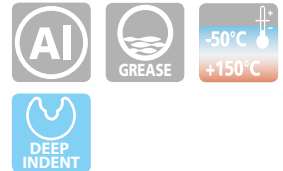
for non-tension connections on Aluminium conductors according to DIN EN 50182

Manufactured according to DIN 46267 Part 2



Conductor Size sqmm		Code	Ref.	Dimensions mm		Quantity Bag	Hydraulic Tools			
rm sm	re se			Øi	L		HT45-E HT51	B450ND-BVE RH50	B500NDE B500E	RHU 81 RHU 81-U
16	25	12	DSVA16	5.8	55	30				
25	35	12	DSVA25	6.8	70	25				
35	50	14	DSVA35	8.0	85	25				
50	70	16	DSVA50	9.8	85	20				
70	95	18	DSVA70	11.2	105	20				
95	120	22	DSVA95	13.2	105	15				
120	150	22	DSVA120	14.7	105	15				
150	185	25	DSVA150	16.5	125	10				
185	240	28	DSVA185	18.3	125	10				
240	300	32	DSVA240	21.0	145	5				
300		34	DSVA300	23.3	145	10				
400		38	DSVA400	26.0	210	3				
		42	DSVA401	28.0	210	3				
500		44	DSVA500	29.0	210	3				
		46	DSVA501	31.0	210	3				
600		52	DSVA625	35.0	330	4				
800		58	DSVA800	40.0	350	3				
1000		60	DSVA1000	44.0	350	3				

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



Crimping through connectors type DSVA.. are manufactured according to DIN 46267 part 2.

The aluminum tube has a purity equal to or greater than 99.5%.

The crimping through connectors are suitable for aluminum conductors according to DIN EN 50182, up to 10 kV.

All connectors are filled with a special grease that avoids aluminum oxidation after crimp and thus guarantees an optimal compression.

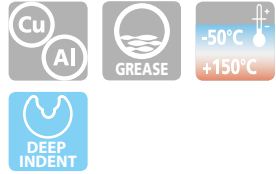
Barrels are capped for storage and transport.

On the connector following information is shown:

- Cembre logo
- Connector description
- Section
- Number and position of crimps
- Compression code according to DIN 48083

Details of the appropriate crimping tools and dies are shown on page 218.

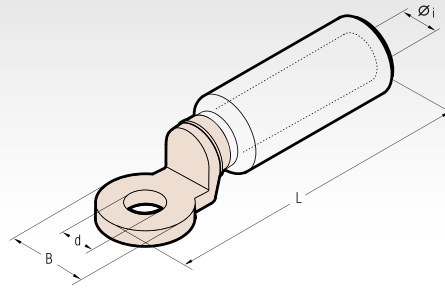
CAA-M



The barrels of series CAA-M connectors are made from Aluminium of a purity equal to or greater than 99,5%. The barrel is friction welded to the copper palm thus achieving the best possible transition between the Copper palm and Aluminium barrel. Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium. Details of the appropriate crimping tools and dies are shown on pages 213, 215.

BIMETALLIC CONNECTORS

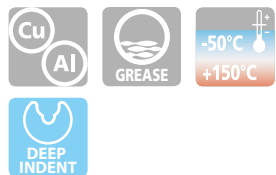
Copper palm fixing - Aluminium barrels



Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools	
			Øi	B	L	d			
10	12	CAA10-M12	4,3	24,0	87,0	13,0	90/3	HT131-UC RHU131-C B1300-UC	
16	12	CAA16-M12	5,5	24,0	87,0	13,0	90/3		
25	12	CAA25-M12	6,5	24,0	87,0	13,0	90/3		
35	12	CAA35-M12	8,0	24,0	87,0	13,0	90/3		
	12	CAA35-20-M12	8,0	24,0	87,0	13,0	60/3		
50	12	CAA50-M12	9,0	24,0	87,0	13,0	60/3		
70	12	CAA70-M12	11,0	24,0	87,0	13,0	60/3		
95	12	CAA95-M12	12,5	24,0	87,0	13,0	60/3		
120	12	CAA120-M12	13,7	31,0	111,0	13,0	30/3		
150	12	CAA150-M12	15,5	31,0	111,0	13,0	30/3		
185	12	CAA185-M12	17,0	35,0	116,0	13,0	18/3		
240	12	CAA240-M12	19,5	35,0	116,0	13,0	18/3		
300	12	CAA300-34M12	22,5	35,0	120,0	13,0	15/3	ECW-H3D RHU230-630	
	16	CAA300-34M16	22,5	35,0	120,0	17,0	15/3		
400	16	CAA400-M16	23,3	35,0	152,5	16,5	12/3		
	16	CAA400-M16	26,0	35,0	152,5	16,5	12/3		
500	16	CAA500-M16TNBD	29,1	35,0	152,5	16,5	12/3		
630	8	CAA630-4M8	32,5	60,0	200,0	4 x 9,0*	9/3		

* 4 holes with 30 mm between axes

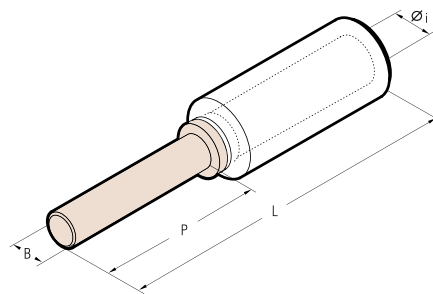
MTA-C



The barrels of series MTA-C connectors are made from Aluminium of a purity equal to or greater than 99,5%. The barrel is friction welded to the pin thus achieving the best possible transition between the Copper pin and Aluminium barrel. Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium. Details of the appropriate crimping tools and dies are shown on pages 213, 215.

BIMETALLIC CONNECTORS

Copper pin - Aluminium barrels

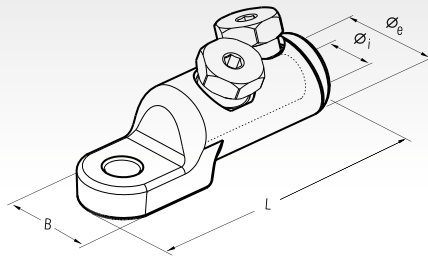


Conductor Size sqmm	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools
		Øi	B	P	L		
16	MTA16-C	5,5	8	30	82	90/3	HT131-UC RHU131-C B1300-UC
25	MTA25-C	6,5	8	30	82	90/3	
35	MTA35-C	8,0	8	30	82	90/3	
50	MTA50-C	9,0	12	45	97	60/3	
70	MTA70-C	11,0	12	45	97	60/3	
95	MTA95-C	12,5	12	45	97	60/3	
120	MTA120-C	13,7	14	55	125	30/3	
150	MTA150-C	15,5	14	55	125	30/3	
185	MTA185-C	17,0	14	55	125	24/3	
240	MTA240-C	19,5	14	55	125	24/3	

MECHANICAL LUGS

MLA-C

For Low and Medium voltage Al/Cu conductors



Conductor Size sqmm	Type	Ø Stud mm	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
50-240	MLA50-240-12C	12	33	20,5	33	106,5*	2	3 ● ● ●	1/10

*without centring devices



Cembre range-taking mechanical connectors are intended for use with Copper and Aluminium conductors, for low and medium voltage (up to 52kV) installations, in indoor, outdoor and underground applications. Mechanical connector bodies (pic.1) are made from Aluminium EN-AW 2011 T6 with cross sectional area and barrel length designed to optimise

electrical connectivity. Internal surfaces are protected against oxidation by grease with a very high dropping point, while the Tin plating on external surfaces has a minimum thickness of 12 µm for improved surface protection. Shear bolts (pic.2) are made from the same material and designed to ensure a reliable electrical connection

simply by tightening the bolts with a standard socket until shearing occurs inside the threaded hole without external protrusion. To minimise voltage stresses, connectors are provided with centring devices (pic.3) to improve the alignment of the different conductor sizes.

Key features:

- Wide range of conductor cross sections
- Suitable for Copper and Aluminium conductors
- Tested according to IEC 61238
- Torque controlled to guarantee a good electrical contact
- Reduces inventory levels
- Easy installation - only requires a standard socket
- Reduced installation time

Pic. 1



Pic. 2



Conductor Size sqmm	Centring device	
	Color	Type
50 - 70 - 95	Red	
120 - 150	Blue	
185	Yellow	
240	Not required	

Pic. 3

ML-C

MECHANICAL LUGS WITH SYMMETRICAL PALM

For Medium voltage Al/Cu conductors



Conductor Size sqmm	Type	Ø Stud mm	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
95-240	ML95-240-12C	12	35	20,5	35	124*	2	3	1/10
95-240	ML95-240-16C	16	35	20,5	35	124*	2	3	1/10
150-240	ML150-240-12C	12	35	20,5	35	124*	2	2	1/10
150-240	ML150-240-16C	16	35	20,5	35	124*	2	2	1/10

* without centring devices

MBS-C

MECHANICAL SPLICES

For Low and Medium voltage Al/Cu conductors



Conductor Size sqmm	Type	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
		Øe	Øi	B	L			
50-240	MBS50-240-C	35	20,5	35	124*	4	3	1/20
95-240	MBS95-240-C	35	20,5	35	124*	4	3	1/20

* without centring devices