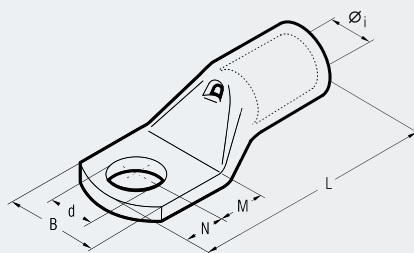


A-M

COPPER TUBE CRIMPING LUGS

for copper conductors



A-M 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 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 still have to perform a reliable connection, annealing 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, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.

Lugs are electrolytically tinned to avoid oxidation. A-M series lugs form an important part of Cembre crimping systems for power carrying conductors, details of the appropriate crimping tools and dies are shown opposite and in detail on pages 132 to 136, whilst our technicians are always available to provide any technical advice which may be required.

The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

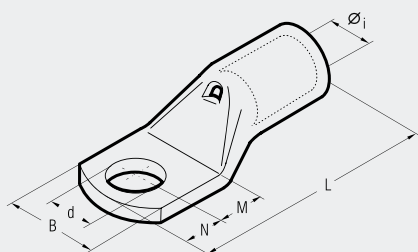
Cond. Size sqmm low stranded flexible *	Ø Stud mm	Ref.	Dimensions mm						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools			
			Øi	B	M	N	L	d								
0,25÷1,5	3	A 03-M 3	1,8	6,0	4,5	3,5	16,0	3,2	5.000/100	HN 1	TN 70 SE	TN 120 SE	HT 45E	HT 51 RH 50 B 51	HT 81-U RHU 81	HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520
	3,5	A 03-M 3,5	1,8	6,5	4,5	3,5	16,0	3,7	5.000/100							
	4	A 03-M 4	1,8	6,5	5,0	4,0	17,0	4,3	5.000/100							
	5	A 03-M 5	1,8	7,5	5,5	4,5	18,0	5,3	5.000/100							
	6	A 03-M 6	1,8	9,0	6,0	5,0	19,0	6,4	5.000/100							
1,5÷2,5	3	A 06-M 3	2,4	6,0	4,5	3,5	17,0	3,2	4.000/100							
	3,5	A 06-M 3,5	2,4	6,5	4,5	3,5	17,0	3,7	4.000/100							
	4	A 06-M 4	2,4	7,5	5,0	4,0	18,0	4,3	4.000/100							
	5	A 06-M 5	2,4	8,5	5,5	4,5	19,0	5,3	4.000/100							
	6	A 06-M 6	2,4	9,0	6,0	5,0	20,0	6,4	4.000/100							
4÷6	8	A 06-M 8	2,4	12,0	9,0	8,0	26,0	8,4	2.500/100							
	3	A 1-M 3	3,6	7,5	4,5	3,5	20,5	3,2	2.000/100							
	3,5	A 1-M 3,5	3,6	7,5	4,5	3,5	20,5	3,7	2.000/100							
	4	A 1-M 4	3,6	8,0	5,0	4,0	21,5	4,3	2.000/100							
	5	A 1-M 5	3,6	9,0	6,5	6,0	25,0	5,3	2.000/100							
10	6	A 1-M 6	3,6	11,0	7,0	6,0	25,5	6,4	2.000/100							
	8	A 1-M 8	3,6	14,0	9,0	8,0	29,5	8,4	1.500/100							
	10	A 1-M 10	3,6	16,5	11,0	10,0	33,5	10,5	1.000/100							
	4	A 2-M 4	4,6	10,0	5,0	4,0	22,5	4,3	1.500/100							
	5	A 2-M 5	4,6	10,0	6,5	6,0	26,0	5,3	1.500/100							
16	6	A 2-M 6	4,6	11,0	7,0	6,0	26,5	6,4	1.500/100							
	8	A 2-M 8	4,6	15,0	9,0	8,0	30,5	8,4	1.000/100							
	10	A 2-M 10	4,6	18,0	11,0	10,0	34,5	10,5	1.000/100							
	12	A 2-M 12	4,6	19,0	14,0	12,0	39,5	13,2	1.000/100							
	4	A 3-M 4	5,8	11,5	5,0	4,0	25,5	4,3	1.000/100							
25	5	A 3-M 5	5,8	11,5	6,5	6,0	29,0	5,3	1.000/100							
	6	A 3-M 6	5,8	11,5	7,0	6,0	29,5	6,4	1.000/100							
	8	A 3-M 8	5,8	15,0	9,0	8,0	33,5	8,4	500/100							
	10	A 3-M 10	5,8	18,0	11,0	10,0	37,5	10,5	500/100							
	12	A 3-M 12	5,8	20,0	14,0	12,0	42,5	13,2	500/100							
35	4	A 5-M 4	7,0	14,0	5,0	4,0	28,0	4,3	1.000/100							
	5	A 5-M 5	7,0	14,0	6,5	6,0	31,5	5,3	500/100							
	6	A 5-M 6	7,0	14,0	7,0	6,0	32,0	6,4	500/100							
	8	A 5-M 8	7,0	15,0	9,0	8,0	36,0	8,4	500/100							
	10	A 5-M 10	7,0	18,0	11,0	10,0	40,0	10,5	500/100							
50	12	A 5-M 12	7,0	21,0	14,0	12,0	45,0	13,2	500/100							
	5	A 7-M 5	8,9	17,0	6,5	6,0	34,0	5,3	500/100							
	6	A 7-M 6	8,9	17,0	7,0	6,0	34,5	6,4	500/100							
	8	A 7-M 8	8,9	17,0	9,0	8,0	38,5	8,4	400/100							
	10	A 7-M 10	8,9	19,0	11,0	10,0	42,5	10,5	400/100							
70	12	A 7-M 12	8,9	21,0	14,0	12,0	47,5	13,2	300/50							
	6	A 10-M 6	10,0	19,0	8,0	7,0	40,5	6,4	200/50							
	8	A 10-M 8	10,0	19,0	9,0	8,0	42,5	8,4	200/50							
	10	A 10-M 10	10,0	20,0	11,0	10,0	46,5	10,5	200/50							
	12	A 10-M 12	10,0	21,0	14,0	12,0	51,5	13,2	200/50							
	14	A 10-M 14	10,0	25,0	16,0	14,0	55,5	15,0	200/50							
	16	A 10-M 16	10,0	26,0	18,0	16,0	59,5	17,0	200/50							
	6	A 14-M 6	11,3	21,0	8,0	7,0	44,0	6,4	200/50							
	8	A 14-M 8	11,3	21,0	9,0	8,0	46,0	8,4	200/50							
	10	A 14-M 10	11,3	21,0	11,0	10,0	50,0	10,5	200/50							
	12	A 14-M 12	11,3	22,0	14,0	12,0	55,0	13,2	150/50							
	14	A 14-M 14	11,3	25,0	16,0	14,0	59,0	15,0	100/50							
	16	A 14-M 16	11,3	26,0	18,0	16,0	63,0	17,0	100/50							



COPPER TUBE CRIMPING LUGS

for copper conductors

A-M



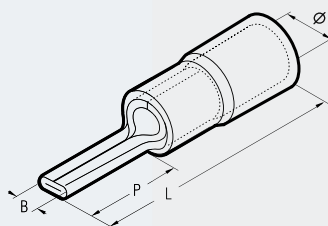
Cond. Size sqmm low stranded flexible *	Ø Stud mm	Ref.	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools			
			Øi	B	M	N	L	d						
95	70 95	6 A 19-M 6	13,5	25,0	8,0	7,0	50,5	6,4	100/25	TN 120 SE	HT 45-E	HT 51 RH 50 B 51	HT 81-J RHU 81	HT 120 and tools and heads with 130 kN crimping force ECW-H3D RHU 520
		8 A 19-M 8	13,5	25,0	9,0	8,0	52,5	8,4	100/25					
		10 A 19-M 10	13,5	25,0	11,0	10,0	56,5	10,5	100/25					
		12 A 19-M 12	13,5	25,0	14,0	12,0	61,5	13,2	100/25					
		14 A 19-M 14	13,5	25,0	16,0	14,0	65,5	15,0	100/25					
		16 A 19-M 16	13,5	27,0	18,0	16,0	69,5	17,0	100/25					
		20 A 19-M 20	13,5	29,5	22,0	20,0	77,5	21,0	100/25					
120	95 120	8 A 24-M 8	15,2	28,5	9,0	8,0	54,0	8,4	100/25					
		10 A 24-M 10	15,2	28,5	11,0	10,0	58,0	10,5	100/25					
		12 A 24-M 12	15,2	28,5	14,0	12,0	63,0	13,2	100/25					
		14 A 24-M 14	15,2	28,5	16,0	14,0	67,0	15,0	50/25					
		16 A 24-M 16	15,2	28,5	18,0	16,0	71,0	17,0	50/25					
150	120 150	8 A 30-M 8	16,7	31,5	13,0	11,0	69,0	8,4	50/25					
		10 A 30-M 10	16,7	31,5	13,0	11,0	69,0	10,5	50/25					
		12 A 30-M 12	16,7	31,5	16,0	14,0	75,0	13,2	50/25					
		14 A 30-M 14	16,7	31,5	18,0	16,0	79,0	15,0	50/25					
		16 A 30-M 16	16,7	31,5	19,0	17,0	81,0	17,0	50/25					
185	150 185	20 A 30-M 20	16,7	31,5	22,0	20,0	87,0	21,0	50/25					
		8 A 37-M 8	19,2	35,5	13,0	11,0	76,0	8,4	50/25					
		10 A 37-M 10	19,2	35,5	13,0	11,0	76,0	10,5	50/25					
		12 A 37-M 12	19,2	35,5	16,0	14,0	82,0	13,2	50/25					
		14 A 37-M 14	19,2	35,5	18,0	16,0	86,0	15,0	50/25					
240	185 240	16 A 37-M 16	19,2	35,5	19,0	17,0	88,0	17,0	30/15					
		20 A 37-M 20	19,2	35,5	22,0	20,0	94,0	21,0	30/15					
		8 A 48-M 8	21,1	39,0	13,0	11,0	82,0	8,4	30/15					
		10 A 48-M 10	21,1	39,0	13,0	11,0	82,0	10,5	30/15					
		12 A 48-M 12	21,1	39,0	16,0	14,0	88,0	13,2	30/15					
300	240 300	14 A 48-M 14	21,1	39,0	18,0	16,0	92,0	15,0	30/15					
		16 A 48-M 16	21,1	39,0	19,0	17,0	94,0	17,0	30/15					
		20 A 48-M 20	21,1	39,0	22,0	20,0	100,0	21,0	30/15					
		10 A 60-M 10	23,7	44,0	20,0	11,0	96,0	10,5	20/10					
		12 A 60-M 12	23,7	44,0	20,0	14,0	99,0	13,2	20/10					
400	300 400	14 A 60-M 14	23,7	44,0	22,0	16,0	103,0	15,0	20/10					
		16 A 60-M 16	23,7	44,0	22,0	19,0	106,0	17,0	20/10					
		20 A 60-M 20	23,7	44,0	24,0	23,0	112,0	21,0	20/10					
		12 A 80-M 12	27,0	51,0	22,0	19,0	113,0	13,2	15/5					
		14 A 80-M 14	27,0	51,0	22,0	19,0	113,0	15,0	20/5					
500	400 500	16 A 80-M 16	27,0	51,0	22,0	19,0	113,0	17,0	20/5					
		20 A 80-M 20	27,0	51,0	24,0	23,0	119,0	21,0	20/5					
		16 A 100-M 16	30,3	56,5	22,0	19,0	117,0	17,0	15/5					
630	500 630	20 A 100-M 20	30,3	56,5	24,0	23,0	123,0	21,0	15/5					
		16 A 120-M 16	33,4	61,6	22,0	19,0	128,0	17,0	12/6					
		20 A 120-M 20	33,4	61,6	24,0	23,0	134,0	21,0	15/5					
800	630 800	16 A 160-M 16	38,0	72,0	24,0	19,0	141,0	17,0	9/3					
		20 A 160-M 20	38,0	72,0	24,0	23,0	145,0	21,0	9/3					
1000	800 1000	16 A 200-M 16	44,0	80,0	24,0	19,0	158,0	17,0	6/2					
		20 A 200-M 20	44,0	80,0	24,0	23,0	162,0	21,0	6/2					

*Actual conductor section may require a larger lug eg for 120mm² size use A30-... lug.

ANE-P



NYLON INSULATED PIN TERMINALS



ANE-P series terminals are made from electrolytic copper, rolled, tin plated and brazed. The interior of the Nylon insulation sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.

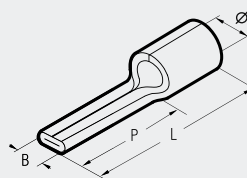
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.

Conductor Size Flexible sqmm	Ref.	Dimensions mm				Quantity Box/Bag	Mechanical Tools		Hydraulic Tools		
		Ø	B	P	L		HNN 3	HNN 4	TNN 70	TNN 120	HT 51 RH 50 B 51
10	ANE 2-P 12	8,0	4,3	14,5	35,1	500/100					
16	ANE 3-P 14	9,2	5,5	18,0	41,1	500/100					
25	ANE 5-P 16	11,1	7,0	20,3	45,0	300/100					
35	ANE 7-P 20	13,6	8,0	24,5	55,0	200/50					

UNINSULATED PIN CONNECTORS



A-P



A-P series pin connectors are designed to terminate conductors into contact blocks.

They are manufactured from copper strip, rolled, brazed and tin plated.

Conductor Size sqmm	Ref.	Dimensions mm				Quantity Box/Bag	Mechanical Tools		Hydraulic Tools		
		Ø1	B	P	L		HN 1	HN 5	TN 70 SE	TN 120 SE	B 15
10	A 2-P 12	4,8	4,3	14,5	23,5	1.500/100					
16	A 3-P 14	5,9	5,5	18,0	28,0	1.500/100					
25	A 5-P 16	7,0	7,0	20,3	32,0	1.000/100					
35	A 7-P 20	8,9	8,0	24,5	39,0	500/100					
50	A 10-P 25	10,0	9,5	26,0	45,0	250/50					
70	A 14-P 30	11,5	11,0	31,0	55,0	200/50					