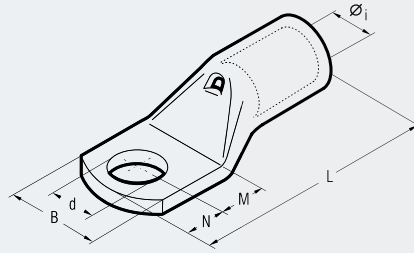


A-M



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.

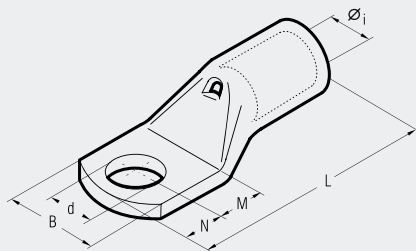
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

Cond. Size sqmm <small>low stranded flexible*</small>	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	B 15		
	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	HN 5	B 15		
	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	TN 70 SE	HT 45-E RH 51 B 51		
	3	A 1-M 3	3,6	7,5	4,5	3,5	20,5	3,2	2.000/100			TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520
	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				
6	A 1-M 6	3,6	11,0	7,0	6,0	25,5	6,4	2.000/100					
10	8	A 1-M 8	3,6	14,0	9,0	8,0	29,5	8,4	1.500/100	TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520		
	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			TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520
	5	A 2-M 5	4,6	10,0	6,5	6,0	26,0	5,3	1.500/100				
	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					
16	12	A 2-M 12	4,6	19,0	14,0	12,0	39,5	13,2	1.000/100	TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520		
	4	A 3-M 4	5,8	11,5	5,0	4,0	25,5	4,3	1.000/100			TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520
	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					
25	12	A 3-M 12	5,8	20,0	14,0	12,0	42,5	13,2	500/100	TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520		
	4	A 5-M 4	7,0	14,0	5,0	4,0	28,0	4,3	1.000/100			TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520
	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					
35	12	A 5-M 12	7,0	21,0	14,0	12,0	45,0	13,2	500/100	TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520		
	5	A 7-M 5	8,9	17,0	6,5	6,0	34,0	5,3	500/100			TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520
	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				
12	A 7-M 12	8,9	21,0	14,0	12,0	47,5	13,2	300/50					
50	6	A 10-M 6	10,0	19,0	8,0	7,0	40,5	6,4	200/50	TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520		
	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				
70	16	A 10-M 16	10,0	26,0	18,0	16,0	59,5	17,0	200/50	TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520		
	6	A 14-M 6	11,3	21,0	8,0	7,0	44,0	6,4	200/50			TN 120 SE	HT 81-U RHU 81 HT 120 and tools with 130 kN crimping force ECW-H3D RHU 520
	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



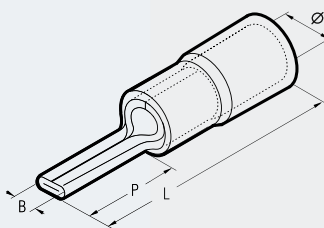
Cond. Size sqmm	Ø Stud mm	Ref.	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools	
			Øi	B	M	N	L	d				
95	70 95	6 A 19-M 6	13,5	25,0	8,0	7,0	50,5	6,4	100/25	TN 120 SE	HT 45-E	HT 51 RH 50 B 51 HT 81-J RHU 81 HT 120 and tools and heads with 130 kN crimping force ECW-H3D RHU 520
		8 A 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			
120	95 120	20 A 19-M 20	13,5	29,5	22,0	20,0	77,5	21,0	100/25			
		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			
150	120 150	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			
		20 A 24-M 20	15,2	30,0	22,0	20,0	79,0	21,0	50/25			
		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			
185	120 150 185	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			
		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			
240	150 185 240	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			
		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			
300	185 240	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			
		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			
400	300	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			
		14 A 60-M 14	23,7	44,0	22,0	16,0	103,0	15,0	20/10			
500	400	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			
630	500	14 A 80-M 14	27,0	51,0	22,0	19,0	113,0	15,0	20/5			
		16 A 80-M 16	27,0	51,0	22,0	19,0	113,0	17,0	20/5			
800	630	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			
1000	800	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			
		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			
		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.

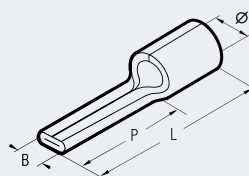
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by Cembre.

Conductor Size Flexible sqmm	Ref.	Dimensions mm				Quantity Box/Bag	Mechanical Tools			Hydraulic Tools		
		Ø	B	P	L		HNN 3	HNN 4	TN 70	TN 120	HT 51 RH 50 B 51	HT 120 and tools and heads with 130 kN crimping force
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	HT 45-E	HT 51 RH 50 B 51
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							