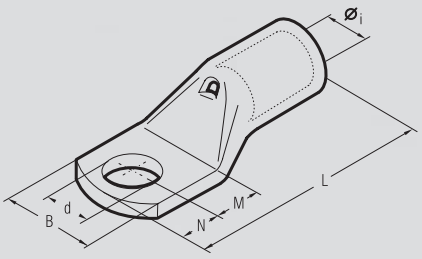
COPPER TUBE CRIMPING LUGS

A-M

for copper conductors



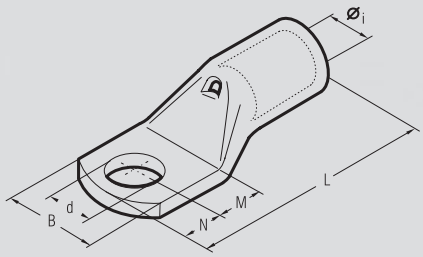
A-M series lugs are manufactured from electrolytic copper tube.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
Cembre lugs are annealed to guarantee optimum ductility which is an absolute necessity 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 tinplated 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 124 to 128, 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 Øi	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools: HN 1	HN 5	TN 70 SE	TN 120 SE	Hydraulic Tools: HT 45-E	HT 51	RH 50	B 51	HT 81-U	RHU 81	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU 520
0,25÷1,5	3	A 03-M 3	1,8	6,0	4,5	3,5	16,0	3,2	5.000/100	●												
	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	●												
	8	A 06-M 8	2,4	12,0	9,0	8,0	26,0	8,4	3.000/100	●												
4÷6	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	●		●	●	●	●	●	●					
	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	16,0	11,0	10,0	33,5	10,5	1.000/100	●		●	●	●	●	●	●					
10	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		●	●	●	●	●	●	●	●	●	●	●	●
	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		●	●	●	●	●	●	●	●	●	●	●	●
16	4	A 3-M 4	5,8	11,5	5,0	4,0	25,5	4,3	1.000/100		●	●	●	●	●	●	●	●	●	●	●	●
	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	1.000/100		●	●	●	●	●	●	●	●	●	●	●	●
	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		●	●	●	●	●	●	●	●	●	●	●	●
25	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			●	●	●	●	●	●	●	●	●	●	●
	12	A 5-M 12	7,0	21,0	14,0	12,0	45,0	13,2	500/100			●	●	●	●	●	●	●	●	●	●	●
35 (25 35)	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	500/100			●	●	●	●	●	●	●	●	●	●	●
	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 (35 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			●	●	●	●	●	●	●	●	●	●	●
70 (50 70)	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	200/50			●	●	●	●	●	●	●	●	●	●	●
	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

LISTED
WIRE CONNECTOR
71 RA

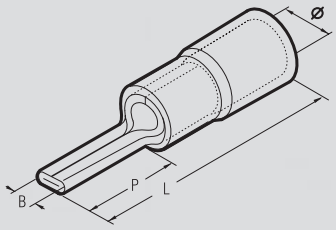


Cond. Size sqmm low stranded	Cond. Size sqmm flexible*	Ø Stud mm	Ref.	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools: TN 120 SE	Hydraulic Tools: HT 45-E	HT 51 RH 50 B 51	HT 81-U RHU 81	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU 520
95	70 95	6	A 19-M 6	13,5	25,0	8,0	7,0	50,5	6,4	100/25	●	●	●	●	●	●	●
		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	100/25	●	●	●	●	●	●	●
		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	●	●	●	●	●	●	●
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		●	●	●	●	●	●
		20	A 30-M 20	16,7	31,5	22,0	20,0	87,0	21,0	50/25		●	●	●	●	●	●
185	150 185	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			●	●	●	●	●
		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			●	●	●	●	●
240	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			●	●	●	●	●
		20	A 48-M 20	21,1	39,0	22,0	20,0	100,0	21,0	30/15			●	●	●	●	●
300	240	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					●	●	●
		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					●	●	●
400	300	12	A 80-M 12	27,0	51,0	22,0	19,0	113,0	13,2	20/5					●	●	●
		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					●	●	●
		20	A 80-M 20	27,0	51,0	24,0	23,0	119,0	21,0	20/5					●	●	●
500	400	16	A 100-M 16	30,3	56,5	22,0	19,0	117,0	17,0	15/5						●	●
		20	A 100-M 20	30,3	56,5	24,0	23,0	123,0	21,0	15/5						●	●
630	500	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	12/6						●	●
800	630	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	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.*

NYLON INSULATED PIN TERMINALS

ANE-P

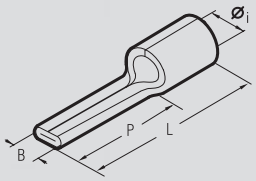


ANE-P series terminals are made from electrolytic copper, rolled, tin plated and brazed. The interior of the Nylon insulation sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
In order to achieve the best electrical and mechanical performance it is suggested 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	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D
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			
		Øi	B	P	L		HN 1	HN 5	TN 70 SE	TN 120 SE	HT 45-E	HT 51 RH 50 B 51	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D
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								