

### **COPPER TUBE CRIMPING LUG TYPE AM** for copper conductors



#### **Description:**

- A-M series lugs are manufactured from electrolytic copper tube Cu-OF CW008A conform to UNI EN 13600:2013. 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 tin plated with a minimum thickness of 3µm to avoid oxidation. A-M series lugs form an important part of Cembre crimping systems for power carrying conductors.

#### **Each connector is marked as follows:**

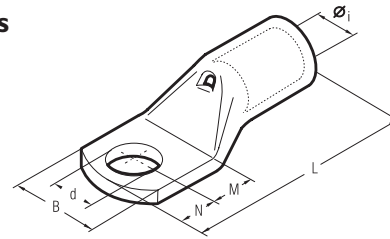
- Cembre trade mark and reference number.
- Nature and size of conductor (mm<sup>2</sup>).
- Ø stud (mm).

#### **Markings:**

 - According to UL 486A standard (file E125401)  
File no. E125401

### COPPERTUBE CRIMPING LUGSTYPE AM for copper conductors

#### Sections and Dimensions:

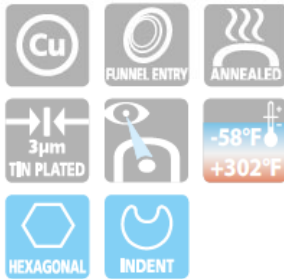
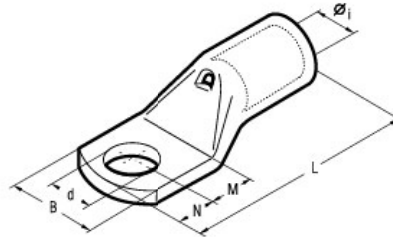


Cond. Size sqmm	Ø Stud mm	Ref.	Dimensions mm					
			Øi	B	M	N	L	d
0,25÷1,5	3	A 03-M 3*	1,8	6,0	4,5	3,5	16,0	3,2
	3,5	A 03-M 3,5*	1,8	6,5	4,5	3,5	16,0	3,7
	4	A 03-M 4*	1,8	6,5	5,0	4,0	17,0	4,3
	5	A 03-M 5*	1,8	7,5	5,5	4,5	18,0	5,3
	6	A 03-M 6*	1,8	9,0	6,0	5,0	19,0	6,4
1,5÷2,5	3	A 06-M 3*	2,4	6,0	4,5	3,5	17,0	3,2
	3,5	A 06-M 3,5*	2,4	6,5	4,5	3,5	17,0	3,7
	4	A 06-M 4*	2,4	7,5	5,0	4,0	18,0	4,3
	5	A 06-M 5*	2,4	8,5	5,5	4,5	19,0	5,3
	6	A 06-M 6*	2,4	9,0	6,0	5,0	20,0	6,4
4÷6	8	A 06-M 8*	2,4	12,0	9,0	8,0	26,0	8,4
	3	A 1-M 3	3,6	7,5	4,5	3,5	20,5	3,2
	3,5	A 1-M 3,5	3,6	7,5	4,5	3,5	20,5	3,7
	4	A 1-M 4	3,6	8,0	5,0	4,0	21,5	4,3
	5	A 1-M 5	3,6	9,0	6,5	6,0	25,0	5,3
10	6	A 1-M 6	3,6	11,0	7,0	6,0	25,5	6,4
	8	A 1-M 8	3,6	14,0	9,0	8,0	29,5	8,4
	10	A 1-M 10	3,6	16,5	11,0	10,0	33,5	10,5
	4	A 2-M 4	4,6	10,0	5,0	4,0	22,5	4,3
	5	A 2-M 5	4,6	10,0	6,5	6,0	26,0	5,3
16	6	A 2-M 6	4,6	11,0	7,0	6,0	26,5	6,4
	8	A 2-M 8	4,6	15,0	9,0	8,0	30,5	8,4
	10	A 2-M 10	4,6	18,0	11,0	10,0	34,5	10,5
	12	A 2-M 12	4,6	19,0	14,0	12,0	39,5	13,2
	4	A 3-M 4	5,8	11,5	5,0	4,0	25,5	4,3
25	5	A 3-M 5	5,8	11,5	6,5	6,0	29,0	5,3
	6	A 3-M 6	5,8	11,5	7,0	6,0	29,5	6,4
	8	A 3-M 8	5,8	15,0	9,0	8,0	33,5	8,4
	10	A 3-M 10	5,8	18,0	11,0	10,0	37,5	10,5
	12	A 3-M 12	5,8	20,0	14,0	12,0	42,5	13,2
35	4	A 5-M 4	7,0	14,0	5,0	4,0	28,0	4,3
	5	A 5-M 5	7,0	14,0	6,5	6,0	31,5	5,3
	6	A 5-M 6	7,0	14,0	7,0	6,0	32,0	6,4
	8	A 5-M 8	7,0	15,0	9,0	8,0	36,0	8,4
	10	A 5-M 10	7,0	18,0	11,0	10,0	40,0	10,5
50	12	A 5-M 12	7,0	21,0	14,0	12,0	45,0	13,2
	5	A 7-M 5	8,9	17,0	6,5	6,0	34,0	5,3
	6	A 7-M 6	8,9	17,0	7,0	6,0	34,5	6,4
	8	A 7-M 8	8,9	17,0	9,0	8,0	38,5	8,4
	10	A 7-M 10	8,9	19,0	11,0	10,0	42,5	10,5
70	12	A 7-M 12	8,9	21,0	14,0	12,0	47,5	13,2
	6	A 10-M 6	10,0	19,0	8,0	7,0	38,5	6,4
	8	A 10-M 8	10,0	19,0	9,0	8,0	40,5	8,4
	10	A 10-M 10	10,0	20,0	11,5	9,5	44,5	10,5
	12	A 10-M 12	10,0	21,0	12,0	12,0	47,5	13,2
1000	14	A 10-M 14	10,0	25,0	16,0	14,0	55,5	15,0
	16	A 10-M 16	10,0	26,0	18,0	16,0	59,5	17,0
	6	A 14-M 6	11,3	21,0	8,0	7,0	44,0	6,4
	8	A 14-M 8	11,3	21,0	9,0	8,0	46,0	8,4
	10	A 14-M 10	11,3	21,0	11,0	10,0	50,0	10,5
630	12	A 14-M 12	11,3	22,0	14,0	12,0	55,0	13,2
	14	A 14-M 14	11,3	25,0	16,0	14,0	59,0	15,0
	16	A 14-M 16	11,3	26,0	18,0	16,0	63,0	17,0

Cond. Size sqmm	Ø Stud mm	Ref.	Dimensions mm					
			Øi	B	M	N	L	d
70	6	A 19-M 6	13,5	25,0	8,0	7,0	50,5	6,4
	8	A 19-M 8	13,5	25,0	9,0	8,0	52,5	8,4
	10	A 19-M 10	13,5	25,0	11,0	10,0	56,5	10,5
	12	A 19-M 12	13,5	25,0	14,0	12,0	61,5	13,2
	14	A 19-M 14	13,5	25,0	16,0	14,0	65,5	15,0
95	16	A 19-M 16	13,5	27,0	18,0	16,0	69,5	17,0
	20	A 19-M 20	13,5	29,5	22,0	20,0	77,5	21,0
	8	A 24-M 8	15,2	28,5	9,0	8,0	54,0	8,4
	10	A 24-M 10	15,2	28,5	11,0	10,0	58,0	10,5
	12	A 24-M 12	15,2	28,5	14,0	12,0	63,0	13,2
120	14	A 24-M 14	15,2	28,5	16,0	14,0	67,0	15,0
	16	A 24-M 16	15,2	28,5	18,0	16,0	71,0	17,0
	20	A 24-M 20	15,2	30,0	22,0	20,0	79,0	21,0
	8	A 30-M 8	16,7	31,5	13,0	11,0	69,0	8,4
	10	A 30-M 10	16,7	31,5	13,0	11,0	69,0	10,5
150	12	A 30-M 12	16,7	31,5	16,0	14,0	75,0	13,2
	14	A 30-M 14	16,7	31,5	18,0	16,0	79,0	15,0
	16	A 30-M 16	16,7	31,5	19,0	17,0	81,0	17,0
	20	A 30-M 20	16,7	31,5	22,0	20,0	87,0	21,0
	8	A 37-M 8	19,2	35,5	13,0	11,0	76,0	8,4
185	10	A 37-M 10	19,2	35,5	13,0	11,0	76,0	10,5
	12	A 37-M 12	19,2	35,5	16,0	14,0	82,0	13,2
	14	A 37-M 14	19,2	35,5	18,0	16,0	86,0	15,0
	16	A 37-M 16	19,2	35,5	19,0	17,0	88,0	17,0
	20	A 37-M 20	19,2	35,5	22,0	20,0	94,0	21,0
240	8	A 48-M 8	21,1	39,0	13,0	11,0	77,5	8,4
	10	A 48-M 10	21,1	39,0	13,0	11,0	77,5	10,5
	12	A 48-M 12	21,1	39,0	14,0	12,0	79,5	13,2
	14	A 48-M 14	21,1	39,0	18,0	16,0	92,0	15,0
	16	A 48-M 16	21,1	39,0	19,0	17,0	94,0	17,0
300	20	A 48-M 20	21,1	39,0	22,0	20,0	100,0	21,0
	10	A 60-M 10	23,7	44,0	20,0	11,0	96,0	10,5
	12	A 60-M 12	23,7	44,0	20,0	14,0	99,0	13,2
	14	A 60-M 14	23,7	44,0	22,0	16,0	103,0	15,0
	16	A 60-M 16	23,7	44,0	22,0	19,0	106,0	17,0
400	20	A 60-M 20	23,7	44,0	24,0	23,0	112,0	21,0
	12	A 80-M 12	27,0	51,0	22,0	19,0	113,0	13,2
	14	A 80-M 14	27,0	51,0	22,0	19,0	113,0	15,0
	16	A 80-M 16	27,0	51,0	22,0	19,0	113,0	17,0
	20	A 80-M 20	27,0	51,0	24,0	23,0	119,0	21,0
500	16	A 100-M 16	30,3	56,5	22,0	19,0	117,0	17,0
	500	A 100-M 20	30,3	56,5	24,0	23,0	123,0	21,0
	16	A 120-M 16*	33,4	61,6	22,0	19,0	128,0	17,0
630	20	A 120-M 20*	33,4	61,6	24,0	23,0	134,0	21,0
	16	A 160-M 16*	38,0	72,0	24,0	19,0	141,0	17,0
	20	A 160-M 20*	38,0	72,0	24,0	23,0	145,0	21,0
800	16	A 200-M 16*	44,0	80,0	24,0	19,0	158,0	17,0
	20	A 200-M 20*	44,0	80,0	24,0	23,0	162,0	21,0

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

\*Not UL approved



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.

A-M series lugs are designed to suit panel applications.

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

A-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed to guarantee optimum ductility and electrolytically Tin plated to avoid oxidation.

The presence of an inspection hole facilitates full insertion of the conductor.

Conductor Size Extra Flexible AWG	Ø Stud in.	Type	Dimensions in.						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
			Øi	B	M	N	L	d			
2	1/4"	A9-M6/15	0.37	0.59	0.31	0.28	1.52	0.25	400/100	TN70SEY	HT45-E B450ND-BVA HT51 RH50 B500A B500DA B550CA HT81-U RHU81 B1300L-CA and similar tools for U dies ECW-H3D RHU520
	5/16"	A9-M8	0.37	0.67	0.35	0.31	1.59	0.33	400/100		
	3/8"	A9-M10	0.37	0.73	0.43	0.39	1.75	0.41	300/100		
1/0	1/2"	A9-M12	0.37	0.83	0.55	0.47	1.95	0.52	200/50		
	1/4"	A12-M6/15	0.43	0.59	0.31	0.28	1.59	0.25	200/50		
	5/16"	A12-M8	0.43	0.76	0.35	0.31	1.67	0.33	200/50		
	3/8"	A12-M10	0.43	0.76	0.43	0.39	1.83	0.41	200/50		
	3/8"	A12-M10/19	0.43	0.75	0.43	0.39	1.83	0.41	200/50		
2/0	1/2"	A12-M12	0.43	0.87	0.55	0.47	2.03	0.52	200/50		
	1/4"	A17-M6	0.51	0.91	0.31	0.28	1.77	0.25	200/50		
	5/16"	A17-M8	0.51	0.91	0.35	0.31	1.85	0.33	150/50		
	3/8"	A17-M10	0.51	0.91	0.43	0.39	2.01	0.41	150/50		
	3/8"	A17-M10/19	0.51	0.75	0.43	0.39	2.01	0.41	200/50		
	1/2"	A17-M12	0.51	0.91	0.55	0.47	2.20	0.52	150/50		
	9/16"	A17-M14	0.51	0.98	0.61	0.47	2.26	0.59	150/25		
3/0	5/8"	A17-M16	0.51	1.06	0.65	0.53	2.36	0.67	100/25		
	5/16"	A20-M8	0.59	1.06	0.35	0.31	1.97	0.33	100/25		
	3/8"	A20-M10	0.59	1.06	0.43	0.39	2.13	0.41	100/25		
	1/2"	A20-M12	0.59	1.06	0.55	0.47	2.32	0.52	100/25		
	9/16"	A20-M14	0.59	1.06	0.61	0.47	2.38	0.59	100/25		
250 MCM	5/8"	A20-M16	0.59	1.06	0.65	0.53	2.48	0.67	100/25		
	3/8"	A29-M8	0.65	1.18	0.35	0.31	2.11	0.33	100/25		
	3/8"	A29-M10	0.65	1.18	0.43	0.39	2.26	0.41	50/25		
	1/2"	A29-M12	0.65	1.18	0.55	0.47	2.46	0.52	50/25		
	9/16"	A29-M14	0.65	1.18	0.61	0.47	2.52	0.59	100/25		
300 MCM	5/8"	A29-M16	0.65	1.18	0.65	0.53	2.62	0.67	100/25		
	3/4"	A29-M20	0.65	1.18	0.87	0.79	3.09	0.83	75/25		
	3/8"	A35-M10	0.76	1.35	0.51	0.43	2.58	0.41	50/25		
	1/2"	A35-M12	0.76	1.35	0.63	0.55	2.81	0.52	50/25		
	9/16"	A35-M14	0.76	1.35	0.71	0.63	2.97	0.59	50/25		
350 MCM	5/8"	A35-M16	0.76	1.35	0.75	0.67	3.05	0.67	30/15		
	3/4"	A35-M20	0.76	1.35	0.87	0.79	3.29	0.83	30/15		
	3/8"	A40-M10	0.83	1.48	0.51	0.43	2.87	0.41	30/15		
	1/2"	A40-M12	0.83	1.48	0.63	0.55	3.11	0.52	30/15		
	9/16"	A40-M14	0.83	1.48	0.71	0.63	3.27	0.59	30/15		
		A40-M16	0.83	1.48	0.75	0.67	3.35	0.67	30/15		
		A40-M20	0.83	1.48	0.87	0.79	3.58	0.83	30/15		