



times change copper remains

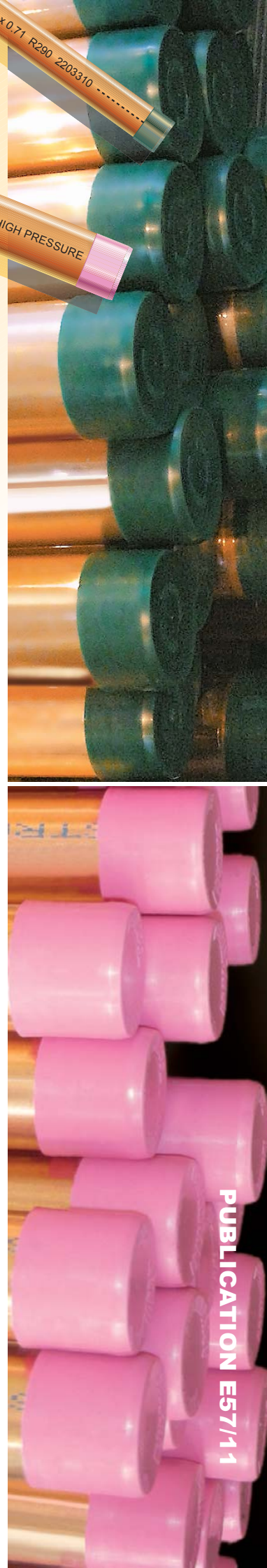
KEMBLA[®]

AIR CONDITIONING & REFRIGERATION

COPPER TUBE TO EUROPEAN STANDARD

EN 12735-1

Especially produced to meet the requirements of the new generation ozone friendly refrigerants



PUBLICATION E57/11

KEMBLA® AIR CONDITIONING & REFRIGERATION TUBE TO EUROPEAN STANDARD EN 12735-1

MM Kembla is a world-class producer and Australia's leading supplier of copper tube manufactured under the famous **KEMBLA®** brand name. MM Kembla manufactures a comprehensive range of copper tube products to comply with a variety of applications and International Standards.

Included in the **KEMBLA®** range is tube manufactured to fully conform to the European Standard for Air Conditioning & Refrigeration EN 12735-1. Tubes are available from 6.35mm (1/4") to 79.38mm (3 1/8") diameter in various wall thicknesses and can also be manufactured to larger sizes upon request. Copper tube manufactured to EN 12735-1 is now being supplied in place of the previously specified BS 2871-2, which is now a redundant Standard.

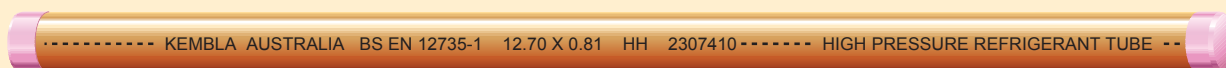
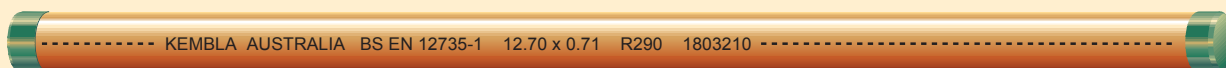
Now included in this range are products suitable for high-pressure refrigerants such as R410A, which has been selected as a replacement for R22 refrigerant that has been commonly used in light commercial and residential air-conditioning. These tubes are protected with pink caps to designate they are high-pressure tubes and the opposite table shows the sizes available. R410A has a 60% higher operating pressure than R22 thus requiring a thicker wall copper tube and significantly stronger copper fittings. 15% silver solder is recommended when brazing tube for use with R410A or other high-pressure refrigerants.

The internal cleanliness of air conditioning and refrigeration tube is critical in order to prevent contamination to the components in the piping system. MM Kembla has a unique manufacturing process and certified laboratory to confirm that the total residue does not exceed 0.038g/m² as specified in EN12735-1, AS/NZS1571 and ASTM B280. After cleaning, all tubes are individually end-capped to maintain their internal cleanliness. All straight tubes are manufactured in 5.8m lengths for ease of containerisation and are bundled and wrapped in plastic for maximum protection. Individual coils are also wrapped in plastic, packed into cardboard cartons and stacked on pallets ready for delivery.

Test Certificates are available for all products upon request.

EN12735-1 TUBE IDENTIFICATION

All straight lengths and coiled tube will be marked according to the EN 12735-1 Standard as follows:



KEMBLA® REFRIGERATION FITTINGS TO STANDARD ASME B16.22

MM KEMBLA is a leading supplier of a comprehensive range of copper fittings conforming to a variety of applications and International Standards. KEMBLA® fittings are marketed under the famous KEMBLA® and K Tick brand marks. A full range of fittings is available to suit KEMBLA® EN 12735-1 Air Conditioning & Refrigeration tube from 6.35mm (1/4") to 101.6mm (4").

KEMBLA® refrigeration fittings are manufactured in accordance with Standard ASME B16.22 to Kembla's stringent specifications. All Kembla fittings are individually cleaned, bagged and labelled to fully comply with the cleanliness requirements of EN12735-1.

KEMBLA® AIR CONDITIONING & REFRIGERATION TUBE TO EUROPEAN STANDARD EN 12735-1

Actual Tube Size Outside Wall Diameter x Thickness		Weight (kg/m)	Safe Working Pressure (kPa)		Product Code				
metric (mm)	imperial (inches)		up to 50° C	over 50° up to 75°	Straight Length (5.8m)	Lengths per bundle	Annealed Coils (15m)	Coils per Carton	Coils per Pallet
6.35 x 0.56	1/4" x 24swg	0.091	7,069	5,862			T32457	10	200
6.35 x 0.61	1/4" x 23swg	0.098	7,760	6,435			T83536	10	200
6.35 x 0.71	1/4" x 22swg	0.113	9,175	7,608	T55967	200	T32430	10	200
6.35 x 0.81	1/4" x 21swg	0.126	10,635	8,819	T51425	100	T74630	10	200
9.52 x 0.56	3/8" x 24swg	0.141	4,584	3,801			T55255	8	160
9.52 x 0.61	3/8" x 23swg	0.153	5,018	4,161			T86746	8	160
9.52 x 0.71	3/8" x 22swg	0.176	5,900	4,893	T92193	100	T32771	8	160
9.52 x 0.81	3/8" x 21swg	0.198	6,800	5,639	T77113	100	T55746	8	160
12.70 x 0.56	1/2" x 24swg	0.191	3,389	2,810			T74627	6	120
12.70 x 0.61	1/2" x 23swg	0.207	3,705	3,072			T87416	6	120
12.70 x 0.71	1/2" x 22swg	0.239	4,344	3,603	T16062	100	T33011	6	120
12.70 x 0.81	1/2" x 21swg	0.271	4,994	4,141	T10285*	100	T54140	6	120
15.88 x 0.56	5/8" x 24swg	0.241	2,688	2,229			T62254	5	100
15.88 x 0.61	5/8" x 23swg	0.262	2,936	2,435			T91230	5	100
15.88 x 0.71	5/8" x 22swg	0.303	3,438	2,851			T33146	5	100
15.88 x 0.81	5/8" x 21swg	0.343	3,945	3,270			T52082	5	100
15.88 x 0.91	5/8" x 20swg	0.383	4,459	3,698	T24939*	100			
15.88 x 1.02	5/8" x 19swg	0.426	5,031	4,172	T16875*	100	T16853	5	100
19.05 x 0.56	3/4" x 24swg	0.291	2,228	1,848			T86617	4	80
19.05 x 0.71	3/4" x 22swg	0.336	2,846	2,360			T33316	4	80
19.05 x 0.91	3/4" x 20swg	0.464	3,684	3,055	T88074*	100	T33299	4	80
19.05 x 1.14	3/4" x 0.045"	0.574	4,668	3,871	T16854	100	T16862	4	80
22.22 x 0.91	7/8" x 20swg	0.545	3,138	2,602	T13865	100			
22.22 x 1.14	7/8" x 0.045"	0.675	3,970	3,292	T21092	100			
22.22 x 1.40	7/8" x 0.055"	0.819	4,929	4,088	T16863	100			
25.40 x 0.91	1" x 20swg	0.626	2,732	2,266	T60661	100			
25.40 x 1.22	1" x 18swg	0.829	3,705	3,072	T91953	100			
25.40 x 1.63	1" x 16swg	1.089	5,026	4,168	T79851	100			
28.58 x 0.91	1 1/8" x 20swg	0.708	2,419	2,006	T73974*	100			
28.58 x 1.83	1 1/8" x 15swg	1.376	5,014	4,158	T14572	100			
34.92 x 0.91	1 3/8" x 20swg	0.87	1,969	1,633	T15245	50			
34.92 x 1.07	1 3/8" x 0.042"	1.053	2,325	1,928	T61820	50			
34.92 x 1.22	1 3/8" x 18swg	1.156	2,662	2,208	T91990	50			
34.92 x 1.40	1 3/8" x 0.055"	1.319	3,070	2,545	T81877	50			
34.92 x 2.03	1 3/8" x 14swg	1.876	4,527	3,754	T75983	50			
41.28 x 1.22	1 5/8" x 18swg	1.373	2,241	1,858	T91794	50			
41.28 x 1.83	1 5/8" x 15swg	2.029	3,408	2,826	T67212	50			
41.28 x 2.41	1 5/8" x 0.095"	2.632	4,548	3,771	T16867	50			
53.98 x 1.22	2 1/8" x 18swg	1.809	1,703	1,412	T94963	30			
66.68 x 1.22	2 5/8" x 18swg	2.244	1,373	1,138	T19828	25			
66.68 x 1.63	2 5/8" x 16swg	2.981	1,845	1,530	T75569	25			
79.38 x 2.29	3 1/8" x 0.090"	4.961	2,186	1,813	T20812	10			

■ Suitable for R410A and other high pressure refrigerants

* Manufactured in half hard temper, all other straight lengths are hard drawn
Other sizes available on request

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MM Kembla was established in 1916 at Port Kembla, south of Sydney, in the state of New South Wales, Australia. It was from this location that the famous **KEMBLA**® brand originated. The company has been manufacturing copper products on the site since 1918 and first made copper tube there in 1920.

The factory is certified as a Quality Endorsed facility to ISO9001 by SAI Global, as shown by the Certificate of Registration below. MM Kembla also has a variety of third party accreditations to Australian, British/European and American Standards for many of its product ranges.



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