



KEMBLA[®]

AIR CONDITIONING
REFRIGERATION
& MEDICAL GAS
COPPER TUBE TO
AUSTRALIAN/NZ STANDARD
AS/NZS 1571

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



PUBLICATION E59/10

KEMBLA® AIR CONDITIONING & REFRIGERATION TUBE TO AUSTRALIAN / NEW ZEALAND STANDARD AS/NZS 1571

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 Australian/New Zealand Standard for Air Conditioning, Refrigeration & Medical Gas AS/NZS 1571. Tubes are available from 6.35mm (1/4") to 104.78mm (4 1/8") diameter in various wall thicknesses.

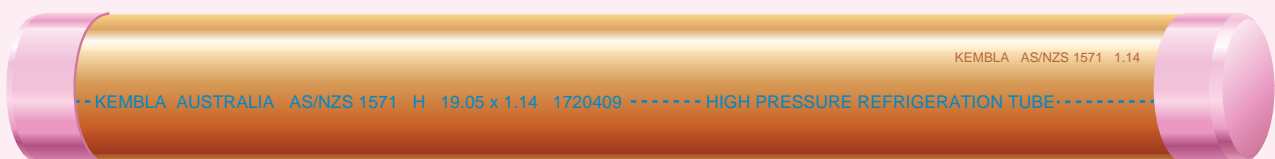
Included in this range are products suitable for high-pressure refrigerants such as R410A, which has been selected as a replacement for R22 refrigerant that has been commonly used in light commercial and residential air-conditioning. All high pressure refrigerant tubes are protected with pink caps to 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, refrigeration and medical gas 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 AS/NZS1571, ASTM B280 and EN12735-1. 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 at the time of order.

AS/NZS1571 TUBE IDENTIFICATION

All straight lengths and coiled tube will be marked according to the AS/NZS 1571 Standard, example:



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® AS/NZS 1571 Air Conditioning, Refrigeration and Medical Gas tube from 6.35mm (1/4") to 104.78mm (4 1/8").

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 AS/NZS 1571.

KEMBLA® AIR CONDITIONING , REFRIGERATION & MEDICAL GAS TUBE TO AS/NZS1571

Actual Tube Size Outside Wall		Weight (kg/m)	Safe Working Pressure (kPa)		Product Code				
Diameter metric (mm)	Thickness 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			T32453	8	192
6.35 x 0.61	1/4" x 23swg	0.098	7,760	6,435			T83535	8	192
6.35 x 0.71	1/4" x 22swg	0.113	9,175	7,608			T59423	8	192
6.35 x 0.81	1/4" x 21swg	0.126	10,635	8,819	T51430	100	T74634 (30m)	6	144
9.52 x 0.56	3/8" x 24swg	0.141	4,584	3,801			T55256	8	192
9.52 x 0.61	3/8" x 23swg	0.153	5,018	4,161			T86747	8	192
9.52 x 0.71	3/8" x 22swg	0.176	5,900	4,893	T92195	100	T32780	8	192
9.52 x 0.81	3/8" x 21swg	0.198	6,800	5,639	T77111	100	T55743 (18m)	8	192
12.70 x 0.56	1/2" x 24swg	0.191	3,389	2,810			T74625	6	144
12.70 x 0.61	1/2" x 23swg	0.207	3,705	3,072			T87417	6	144
12.70 x 0.71	1/2" x 22swg	0.239	4,344	3,603	T16063	100	T33007	6	144
12.70 x 0.81	1/2" x 21swg	0.271	4,994	4,141	T10286*	100	T54133 (18m)	6	144
15.88 x 0.56	5/8" x 24swg	0.241	2,688	2,229			T62253	5	60
15.88 X 0.61	5/8" x 23swg	0.262	2,936	2,435			T91228	5	60
15.88 x 0.71	5/8" x 22swg	0.303	3,438	2,851			T33147	5	60
15.88 x 0.81	5/8" x 21swg	0.343	3,945	3,272			T52078	5	60
15.88 x 0.91	5/8" x 20swg	0.383	4,459	3,698	T24938*	100	T33092	5	60
15.88 x 1.02	5/8" x 19swg	0.426	5,031	4,172	T16871*	100	T16850 (18m)	5	60
19.05 x 0.56	3/4" x 24swg	0.291	2,228	1,848			T86615	4	48
19.05 x 0.71	3/4" x 22swg	0.366	2,846	2,360			T33317	4	48
19.05 x 0.81	3/4" x 21swg	0.415	3,263	2,706			T59404	4	48
19.05 x 0.91	3/4" x 20swg	0.464	3,684	3,055	T88073*	100	T33296	4	48
19.05 x 1.02	3/4" x 19swg	0.517	4,152	3,443			T62987	4	48
19.05 x 1.14	3/4" x 0.045"	0.574	4,668	3,871	T16856	100	T16857 (18m)	4	48
22.22 x 0.91	7/8" x 20swg	0.545	3,138	2,602	T13864*	100	T76200	3	36
22.22 x 1.14	7/8" x 0.045"	0.675	3,970	3,292	T21091	100			
22.22 x 1.40	7/8" x 0.055"	0.819	4,929	4,088	T16861	100			
25.40 x 0.91	1" x 20swg	0.626	2,732	2,266	T60659	100			
25.40 x 1.63	1" x 16swg	1.089	5,026	4,168	T79846	100			
28.58 x 0.91	1 1/8" x 20swg	0.708	2,419	2,006	T73973	100			
28.58 x 1.22	1 1/8" x 18swg	0.938	3,276	2,717	T91963	100			
28.58 x 1.83	1 1/8" x 15swg	1.376	5,014	4,158	T14570	100			
31.75 x 0.91	1 1/4" x 20swg	0.789	2,171	1,801	T22040	50			
34.92 x 0.91	1 3/8" x 20swg	0.870	1,969	1,633	T15239	50			
34.92 x 1.22	1 3/8" x 18swg	1.155	2,662	2,208	T91989	50			
34.92 x 1.40	1 3/8" x 0.055"	1.319	3,070	2,545	T81876	50			
34.92 x 1.63	1 3/8" x 16swg	1.525	3,596	2,982	T75974	50			
34.92 x 2.03	1 3/8" x 14swg	1.876	4,527	3,754	T75981	50			
38.10 x 1.22	1 1/2" x 18swg	1.264	2,433	2,018	T91996	50			
41.28 x 0.91	1 5/8" x 20swg	1.032	1,660	1,376	T32923	50			
41.28 x 1.22	1 5/8" x 18swg	1.373	2,241	1,858	T91793	50			
41.28 x 2.41	1 5/8" x 15swg	2.632	4,548	3,771	T16866	50			
53.98 x 0.91	2 1/8" x 20swg	1.357	1,263	1,048	T78167	30			
53.98 x 1.22	2 1/8" x 18swg	1.809	1,703	1,412	T94961	30			
53.98 x 1.63	2 1/8" x 16swg	2.398	2,291	1,900	T94950	30			
53.98 x 1.78	2 5/8" x 16swg	2.611	2,508	2,080	T76032	30			
53.98 x 2.64	2 5/8" x 12swg	3.809	3,776	3,131	T61585	30			
66.68 x 1.22	2 5/8" x 18swg	2.244	1,373	1,138	T31978	30			
66.68 x 1.63	2 5/8" x 16swg	2.979	1,845	1,530	T75568	30			
66.68 x 2.03	2 5/8" x 14swg	3.688	2,310	1,916	T68985	30			
79.38 x 2.29	3 1/8" x 0.090"	4.961	2,186	1,813	T20811	10			
101.60 x 1.63	4" x 16swg	4.579	1,201	996	T20924	10			
104.78 x 2.79	4 1/8" x 0.110"	7.996	2,013	1,670	T31309	10			

 Suitable for R410A and other high pressure refrigerants
 * Straight lengths supplied in half hard temper, otherwise hard drawn
 Other sizes available on request

times change copper remains



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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