

KEMBLA

COPPER FITTINGS TO
AMERICAN STANDARD

ASME B16.22





MM Kembla was established in 1916 at Port Kembla, NSW, Australia, and it was from this locality that the famous **KEMBLA®** brand name originated. MM Kembla is Australasia's largest and most highly regarded supplier of copper products, including rod, wire, tube, fittings and accessories.

Included in the **KEMBLA®** range are refrigeration fittings to ASME B16.22 specifications: copper solder joint pressure fittings, and are suitable for air-conditioning, refrigeration, plumbing, compressed air, and gas systems.

BENEFITS

- Manufactured to suit British Standard Copper Tube to BS EN 12735-1 for Seamless Round Copper Tubes for Air-conditioning and Refrigeration
- Manufactured to suit other international refrigeration tube standards, such as AS/NZS 1571, ASTM B280 and ASTM B88
- Manufactured to meet or exceed international fittings standards
- All Kembla fittings are made to stringent quality standards and rigorously tested
- Fittings are stocked for prompt delivery
- Backed by MM Kembla's reputation for quality, service and customer care

FEATURES

- A comprehensive range of refrigeration fittings are available to suit low-pressure R22 refrigerant systems and high pressure R410A Ozone friendly refrigerant systems
- The K-Tick brand mark is incised permanently into our products
- Fittings suitable for use with R410A are identified with incise marking and a pink label printed onto their packaging



INSTALLATION

- Copper tubes and fittings can be successfully joined by silver brazing provided best practice and correct tools are utilized
- Use a proprietary silver brazing flux, ensuring the removal of excess flux after completing the brazed joint
- To achieve a long service life from all components, care must be taken in designing and specifying systems to resolve mechanical and thermal stresses

Capillary

90° Elbows - Long Radius



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
1/4	6.35	R410A
3/8	9.52	Std
3/8	9.52	R410A
1/2	12.70	Std
1/2	12.70	R410A
5/8	15.88	Std
5/8	15.88	R410A
3/4	19.05	Std
3/4	19.05	R410A
7/8	22.22	Std
7/8	22.22	R410A
1	25.40	Std
1	25.40	R410A
1 1/8	28.58	Std
1 1/8	28.58	R410A
1 1/4	31.75	Std
1 3/8	34.92	Std
1 3/8	34.92	R410A
1 1/2	38.10	Std
1 5/8	41.28	Std
1 5/8	41.28	R410A
2 1/8	53.98	Std
2 1/8	53.98	R410A
2 5/8	66.68	Std
3 1/8	79.38	Std

45° Elbows - Long Radius



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
1/4	6.35	R410A
3/8	9.52	Std
3/8	9.52	R410A
1/2	12.70	Std
1/2	12.70	R410A
5/8	15.88	Std
5/8	15.88	R410A
3/4	19.05	Std
3/4	19.05	R410A
7/8	22.22	Std
7/8	22.22	R410A
1	25.40	Std
1 1/8	28.58	Std
1 1/8	28.58	R410A
1 1/4	31.75	Std
1 3/8	34.92	Std
1 3/8	34.92	R410A
1 1/2	38.10	Std
1 5/8	41.28	Std
1 5/8	41.28	R410A
2 1/8	53.98	Std
2 1/8	53.98	R410A
2 5/8	66.68	Std
3 1/8	79.38	Std

90° Elbows - Short Radius



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
1/4	6.35	R410A
3/8	9.52	Std
3/8	9.52	R410A
1/2	12.70	Std
5/8	15.88	Std
3/4	19.05	Std
3/4	19.05	R410A
7/8	22.22	Std
1	25.40	Std
1 1/8	28.58	Std
1 1/4	31.75	Std
1 3/8	34.92	Std
1 3/8	34.92	R410A
1 1/2	38.10	Std
1 5/8	41.28	Std
2 1/8	53.98	Std
2 5/8	66.68	Std
3 1/8	79.38	Std

90° Bends - Male/Female



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
1/4	6.35	R410A
3/8	9.52	Std
3/8	9.52	R410A
1/2	12.70	Std
1/2	12.70	R410A
5/8	15.88	Std
5/8	15.88	R410A
3/4	19.05	Std
3/4	19.05	R410A
7/8	22.22	Std
1	25.40	Std
1 1/8	28.58	Std
1 1/4	31.75	Std
1 3/8	34.92	Std
1 1/2	38.10	Std
1 5/8	41.28	Std
2 1/8	53.98	Std
2 5/8	66.68	Std
3 1/8	79.38	Std

Capillary

180° Elbows - Female/Female



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
1/4	6.35	R410A
3/8	9.52	Std
3/8	9.52	R410A
1/2	12.70	Std
5/8	15.88	Std
5/8	15.88	R410A
3/4	19.05	Std
7/8	22.22	Std
1	25.40	Std
1 1/8	28.58	Std
1 3/8	34.92	Std
1 5/8	41.28	Std
2 1/8	53.98	Std

In Line Connectors



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
1/4	6.35	R410A
3/8	9.52	Std
3/8	9.52	R410A
1/2	12.70	Std
1/2	12.70	R410A
5/8	15.88	Std
5/8	15.88	R410A
3/4	19.05	Std
3/4	19.05	R410A
7/8	22.22	Std
7/8	22.22	R410A
1	25.40	Std
1	25.40	R410A
1 1/8	28.58	Std
1 1/8	28.58	R410A
1 3/8	34.92	Std
1 3/8	34.92	R410A
1 5/8	41.28	Std
1 5/8	41.28	R410A
2 1/8	53.98	Std
2 1/8	53.98	R410A
2 5/8	66.68	Std
3 1/8	79.38	Std

Tees - Equal



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
1/4	6.35	R410A
3/8	9.52	Std
3/8	9.52	R410A
1/2	12.70	Std
1/2	12.70	R410A
5/8	15.88	Std
5/8	15.88	R410A
3/4	19.05	Std
3/4	19.05	R410A
7/8	22.22	Std
7/8	22.22	R410A
1	25.40	Std
1	25.40	R410A
1 1/8	28.58	Std
1 1/8	28.58	R410A
1 3/8	34.92	Std
1 3/8	34.92	R410A
1 5/8	41.28	Std
1 5/8	41.28	R410A
2 1/8	53.98	Std
2 1/8	53.98	R410A
2 5/8	66.68	Std
3 1/8	79.38	Std

P' Traps



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/2	12.70	Std
5/8	15.88	Std
3/4	19.05	Std
7/8	22.22	Std
1 1/8	28.58	Std
1 5/8	41.28	Std
2 1/8	53.98	Std

Cap



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
1/4	6.35	Std
3/8	9.52	Std
1/2	12.70	Std
5/8	15.88	Std
3/4	19.05	Std
7/8	22.22	Std
1 1/8	28.58	Std
1 3/8	34.92	Std
1 5/8	41.28	Std
2 1/8	53.98	Std
2 5/8	66.68	Std
3 1/8	79.38	Std

Remark: Other sizes available upon request

Capillary

Reducers (Female/Female)



Tube O.D.		Application
Imperial (inches)	Metric (mm)	
3/8 x 1/4	9.52 x 6.35	Std
3/8 x 1/4	9.52 x 6.35	R410A
1/2 x 1/4	12.70 x 6.35	Std
1/2 x 1/4	12.70 x 6.35	R410A
1/2 x 3/8	12.70 x 9.52	Std
1/2 x 3/8	12.70 x 9.52	R410A
5/8 x 3/8	15.88 x 9.52	Std
5/8 x 3/8	15.88 x 9.52	R410A
5/8 x 1/2	15.88 x 12.70	Std
5/8 x 1/2	15.88 x 12.70	R410A
3/4 x 3/8	19.05 x 9.52	Std
3/4 x 3/8	19.05 x 9.52	R410A
3/4 x 1/2	19.05 x 12.70	Std
3/4 x 1/2	19.05 x 12.70	R410A
3/4 x 5/8	19.05 x 15.88	Std
3/4 x 5/8	19.05 x 15.88	R410A
7/8 x 1/4	22.22 x 6.35	Std
7/8 x 3/8	22.22 x 9.52	Std
7/8 x 3/8	22.22 x 9.52	R410A
7/8 x 1/2	22.22 x 12.70	Std
7/8 x 5/8	22.22 x 15.88	Std
7/8 x 5/8	22.22 x 15.88	R410A
7/8 x 3/4	22.22 x 19.05	Std
7/8 x 3/4	22.22 x 19.05	R410A
1 x 3/4	25.40 x 19.05	Std
1 x 3/4	25.40 x 19.05	R410A
1 1/8 x 1/2	28.58 x 12.70	Std
1 1/8 x 5/8	28.58 x 15.88	Std
1 1/8 x 5/8	28.58 x 15.88	R410A
1 1/8 x 3/4	28.58 x 19.05	Std
1 1/8 x 7/8	28.58 x 22.22	Std
1 1/8 x 7/8	28.58 x 22.22	R410A
1 1/8 x 1	28.58 x 25.40	Std
1 3/8 x 5/8	34.92 x 15.88	Std
1 3/8 x 3/4	34.92 x 19.05	Std
1 3/8 x 7/8	34.92 x 22.22	Std
1 3/8 x 1 1/8	34.92 x 28.58	Std
1 3/8 x 1 1/8	34.92 x 28.58	R410A
1 5/8 x 3/4	41.28 x 19.05	Std
1 5/8 x 7/8	41.28 x 22.22	Std
1 5/8 x 1 1/8	41.28 x 28.58	Std
1 5/8 x 1 3/8	41.28 x 34.92	Std
1 5/8 x 1 3/8	41.28 x 34.92	R410A
2 1/8 x 7/8	53.98 x 22.22	Std
2 1/8 x 1 1/8	53.98 x 28.58	Std
2 1/8 x 1 3/8	53.98 x 34.92	Std
2 1/8 x 1 5/8	53.98 x 41.28	Std
2 1/8 x 1 5/8	53.98 x 41.28	R410A
2 5/8 x 5/8	66.68 x 15.88	Std
2 5/8 x 7/8	66.68 x 22.22	Std
2 5/8 x 1 1/8	66.68 x 28.58	Std
2 5/8 x 1 3/8	66.68 x 34.92	Std
2 5/8 x 1 5/8	66.68 x 41.28	Std
2 5/8 x 2 1/8	66.68 x 53.98	Std
3 1/8 x 1 1/8	79.38 x 28.58	Std
3 1/8 x 1 3/8	79.38 x 34.92	Std
3 1/8 x 1 5/8	79.38 x 41.28	Std
3 1/8 x 2 1/8	79.38 x 53.98	Std
3 1/8 x 2 5/8	79.38 x 66.68	Std

Remark: Other sizes available upon request

Capillary

**Bushings
(Male/Female)**

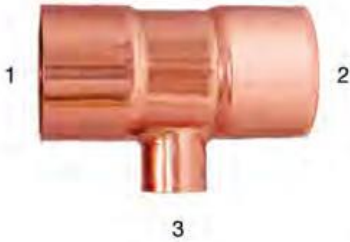


Tube O.D.		Application
Imperial (inches)	Metric (mm)	
3/8 x 1/4	9.52 x 6.35	Std
3/8 x 1/4	9.52 x 6.35	R410A
1/2 x 1/4	12.70 x 6.35	Std
1/2 x 1/4	12.70 x 6.35	R410A
1/2 x 3/8	12.70 x 9.52	Std
1/2 x 3/8	12.70 x 9.52	R410A
5/8 x 3/8	15.88 x 9.52	Std
5/8 x 3/8	15.88 x 9.52	R410A
5/8 x 1/2	15.88 x 12.70	Std
5/8 x 1/2	15.88 x 12.70	R410A
3/4 x 3/8	19.05 x 9.52	Std
3/4 x 3/8	19.05 x 9.52	R410A
3/4 x 1/2	19.05 x 12.70	Std
3/4 x 1/2	19.05 x 12.70	R410A
3/4 x 5/8	19.05 x 15.88	Std
3/4 x 5/8	19.05 x 15.88	R410A
7/8 x 1/4	22.22 x 6.35	Std
7/8 x 3/8	22.22 x 9.52	Std
7/8 x 1/2	22.22 x 12.70	Std
7/8 x 5/8	22.22 x 15.88	Std
7/8 x 5/8	22.22 x 15.88	R410A
7/8 x 3/4	22.22 x 19.05	Std
7/8 x 3/4	22.22 x 19.05	R410A
1 1/8 x 3/8	28.58 x 9.52	Std
1 1/8 x 1/2	28.58 x 12.70	Std
1 1/8 x 5/8	28.58 x 15.88	Std
1 1/8 x 3/4	28.58 x 19.05	Std
1 1/8 x 7/8	28.58 x 22.22	Std
1 1/8 x 1	28.58 x 25.40	Std
1 3/8 x 3/8	34.92 x 9.52	Std
1 3/8 x 1/2	34.92 x 12.70	Std
1 3/8 x 5/8	34.92 x 15.88	Std
1 3/8 x 3/4	34.92 x 19.05	Std
1 3/8 x 7/8	34.92 x 22.22	Std
1 3/8 x 1 1/8	34.92 x 28.58	Std
1 5/8 x 1/2	41.28 x 12.70	Std
1 5/8 x 5/8	41.28 x 15.88	Std
1 5/8 x 3/4	41.28 x 19.05	Std
1 5/8 x 7/8	41.28 x 22.22	Std
1 5/8 x 1 1/8	41.28 x 28.58	Std
1 5/8 x 1 3/8	41.28 x 34.92	Std
2 1/8 x 1/2	53.98 x 12.70	Std
2 1/8 x 5/8	53.98 x 15.88	Std
2 1/8 x 7/8	53.98 x 22.22	Std
2 1/8 x 1 1/8	53.98 x 28.58	Std
2 1/8 x 1 3/8	53.98 x 34.92	Std
2 1/8 x 1 5/8	53.98 x 41.28	Std
2 5/8 x 5/8	66.68 x 15.88	Std
2 5/8 x 7/8	66.68 x 22.22	Std
2 5/8 x 1 1/8	66.68 x 28.58	Std
2 5/8 x 1 3/8	66.68 x 34.92	Std
2 5/8 x 1 5/8	66.68 x 41.28	Std
2 5/8 x 2 1/8	66.68 x 53.98	Std
3 1/8 x 7/8	79.38 x 22.22	Std
3 1/8 x 1 1/8	79.38 x 28.58	Std
3 1/8 x 1 3/8	79.38 x 34.92	Std
3 1/8 x 1 5/8	79.38 x 41.28	Std
3 1/8 x 2 1/8	79.38 x 53.98	Std
3 1/8 x 2 5/8	79.38 x 66.68	Std

Remark: Other sizes available upon request

Capillary

Tees - Branch Reduction



Tube O.D.						Application
Imperial (inches)			Metric (mm)			
1	2	3	1	2	3	
3/8 x 3/8 x 1/4			9.52 x 9.52 x 6.35			Std
3/8 x 3/8 x 1/4			9.52 x 9.52 x 6.35			R410A
1/2 x 1/2 x 1/4			12.70 x 12.70 x 6.35			Std
1/2 x 1/2 x 3/8			12.70 x 12.70 x 9.52			Std
1/2 x 1/2 x 3/8			12.70 x 12.70 x 9.52			R410A
5/8 x 5/8 x 3/8			15.88 x 15.88 x 9.52			Std
5/8 x 5/8 x 3/8			15.88 x 15.88 x 9.52			R410A
5/8 x 5/8 x 1/2			15.88 x 15.88 x 12.70			Std
5/8 x 5/8 x 1/2			15.88 x 15.88 x 12.70			R410A
3/4 x 3/4 x 1/2			19.05 x 19.05 x 12.70			Std
3/4 x 3/4 x 1/2			19.05 x 19.05 x 12.70			R410A
3/4 x 3/4 x 5/8			19.05 x 19.05 x 15.88			Std
3/4 x 3/4 x 5/8			19.05 x 19.05 x 15.88			R410A
7/8 x 7/8 x 1/2			22.22 x 22.22 x 12.70			Std
7/8 x 7/8 x 1/2			22.22 x 22.22 x 12.70			R410A
7/8 x 7/8 x 5/8			22.22 x 22.22 x 15.88			Std
7/8 x 7/8 x 3/4			22.22 x 22.22 x 19.05			Std
1 x 1 x 1/2			25.40 x 25.40 x 12.70			Std
1 x 1 x 1/2			25.40 x 25.40 x 12.70			R410A
1 x 1 x 3/4			25.40 x 25.40 x 19.05			Std
1 1/8 x 1 1/8 x 5/8			28.58 x 28.58 x 15.88			Std
1 1/8 x 1 1/8 x 3/4			28.58 x 28.58 x 19.05			Std
1 1/8 x 1 1/8 x 7/8			28.58 x 28.58 x 22.22			Std
1 3/8 x 1 3/8 x 1/2			34.92 x 34.92 x 12.70			Std
1 3/8 x 1 3/8 x 5/8			34.92 x 34.92 x 15.88			Std
1 3/8 x 1 3/8 x 3/4			34.92 x 34.92 x 19.05			Std
1 3/8 x 1 3/8 x 7/8			34.92 x 34.92 x 22.22			Std
1 3/8 x 1 3/8 x 1 1/8			34.92 x 34.92 x 28.58			Std
1 5/8 x 1 5/8 x 5/8			41.28 x 41.28 x 15.88			Std
1 5/8 x 1 5/8 x 3/4			41.28 x 41.28 x 19.05			Std
1 5/8 x 1 5/8 x 7/8			41.28 x 41.28 x 22.22			Std
1 5/8 x 1 5/8 x 1 1/8			41.28 x 41.28 x 28.58			Std
1 5/8 x 1 5/8 x 1 3/8			41.28 x 41.28 x 34.92			Std
2 1/8 x 2 1/8 x 7/8			53.98 x 53.98 x 22.22			Std
2 1/8 x 2 1/8 x 1 1/8			53.98 x 53.98 x 28.58			Std
2 1/8 x 2 1/8 x 1 3/8			53.98 x 53.98 x 34.92			Std
2 1/8 x 2 1/8 x 1 5/8			53.98 x 53.98 x 41.28			Std
2 5/8 x 2 5/8 x 5/8			66.68 x 66.68 x 15.88			Std
2 5/8 x 2 5/8 x 7/8			66.68 x 66.68 x 22.22			Std
2 5/8 x 2 5/8 x 1 1/8			66.68 x 66.68 x 28.58			Std
2 5/8 x 2 5/8 x 1 3/8			66.68 x 66.68 x 34.92			Std
2 5/8 x 2 5/8 x 1 5/8			66.68 x 66.68 x 41.28			Std
2 5/8 x 2 5/8 x 2 1/8			66.68 x 66.68 x 53.98			Std
3 1/8 x 3 1/8 x 1 1/8			79.38 x 79.38 x 28.58			Std
3 1/8 x 3 1/8 x 1 3/8			79.38 x 79.38 x 34.92			Std
3 1/8 x 3 1/8 x 1 5/8			79.38 x 79.38 x 41.28			Std
3 1/8 x 3 1/8 x 2 1/8			79.38 x 79.38 x 53.98			Std
3 1/8 x 3 1/8 x 2 5/8			79.38 x 79.38 x 66.68			Std

Remark: Other sizes available upon request

MM Kembla has been accredited by SAI Global Limited, of Australia, as a Quality Endorsed Company, to ISO 9001, Lic 0002/01, and as such has a quality management system in place that ensures all manufactured product complies with the relevant specification.



Gloucester Boulevard
PO Box 21
Port Kembla, NSW, 2505
Phone: +612 2 4223 5200
Fax: +612 4223 5111
www.kembla.com.au

Global Distributor:



5/F, Henan Building
90 Jaffe Road
Wanchai, Hong Kong.
Tel : +852 2528 0999
Fax: +852 2528 3113
Email: info@kembla.com.hk
www.kembla.com.hk