

KEMBLA

COMPRESSION FITTINGS TO
EUROPEAN STANDARD

BS EN 1254-2





MM Kembla was established in 1916, and the **KEMBLA**[®] brand name has been synonymous with world class Australian copper manufacturing. It is Australasia's largest and most highly regarded supplier of copper products, including rod, wire, tubing, fittings and accessories. MM Kembla factories are all certified as Quality Endorsed facilities to ISO9001 by SAI Global.

Kembla (HK) Limited is a joint venture with MM Kembla and we stock an extensive range of pipe and fittings for use in plumbing, water supply, sewerage, drainage, industrial, irrigation, gas, electrical, power and telecommunications. We are assigning as the Global Sole Distributor of the compression fittings.

Our range of compression fittings are marketed under the famous **KEMBLA**[®] mark. It is especially advantageous in retrofit plumbing schemes, where space is confined. It is also applicable for heating installations, and low pressure domestic gas services.

KEMBLA[®] compression fittings are made to BS EN1254-2 in both standard brass and dezincification resistant (DZR) brass.

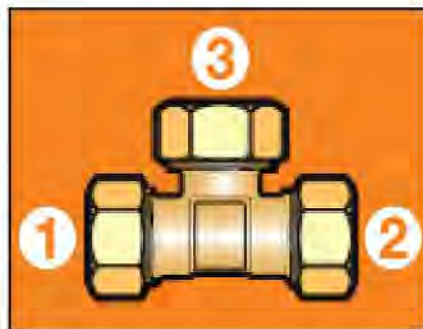
Maximum Temperature and Pressures

Maximum Temperature °C	Bar 6mm-54mm	Bar 67mm-108mm	Note 1: Intermediate pressure ratings shall be determined by interpolation Note 2: Certain designs of compression fittings are suitable for use at temperature / pressure ratings outside those given in the table. For each application the advice of the manufacturer should be sought
30	16	10	
65	10	6	
110	6	4	
120	5	3	

Dimensions

The dimensions used in this catalogue are as follows:

- Equal fittings with uniform connections are shown with one size first e.g. 22mm (because no 18mm size)
- Reduced fittings with two connections are shown with the largest size first e.g. 22 x 15 mm
- Tee's and other reduced fittings of unequal sizes are first quote the ends on the run (larger end first), and then the branch e.g. 22 x 15 x 22mm



1 = 22 mm, 2 = 15mm, 3 = 22mm

Product Guide



Model: 001



Model: 401RED



Model: 601RE



Model: 305



Model: 101



Model: 401(45)



Model: 601REB



Model: 312



Model: 301



Model: 402



Model: 601REE



Model: 313



Model: 301RED



Model: 403



Model: 615



Model: 314



Model: 302



Model: 453



Model: 617



Model: 315



Model: 303



Model: 601EQ



Model: 901



Model: 317



Model: 401



Model: 601RB



Model: 068



Model: 318

Product Guide



Compression Olive

Model: 001

Size (mm)	PCS / BAG	PCS / CTN
15	400	4800
22	200	2400
28	120	1440
35	80	960
42	50	600
54	25	300
67	-	-



Compression Nut

Model: 101

Size (mm)	PCS / BAG	PCS / CTN
10	150	1800
15	100	1200
22	50	600
28	30	360
35	20	200
42	10	150
54	5	90



Straight Coupling CxC

Model: 301

Size (mm)	PCS / BAG	PCS / CTN
10 x 10	10	600
15 x 15	10	300
22 x 22	10	180
28 x 28	5	100
35 x 35	5	80
42 x 42	2	50
54 x 54	2	30
67 x 67	1	10



Reducing Coupling CxC

Model: 301RED

Size (mm)	PCS / BAG	PCS / CTN
15 x 10	10	350
22 x 15	10	200
28 x 15	5	120
28 x 22	5	120
35 x 15	5	80
35 x 22	5	80
35 x 28	5	80
42 x 15	2	55
42 x 22	2	55
42 x 28	2	50
42 x 35	2	50
54 x 15	2	40
54 x 22	2	40
54 x 28	2	35
54 x 35	2	35
54 x 42	2	30



Female Straight Adaptor CxFI

Model: 303

Size (mm)	PCS / BAG	PCS / CTN
10 x 1/2"	10	450
15 x 1/2"	10	350
15 x 3/4"	10	200
22 x 1/2"	10	200
22 x 3/4"	10	200
22 x 1"	5	120
28 x 3/4"	5	120
28 x 1"	5	100
35 x 1/2"	5	90
35 x 1"	5	60
35 x 1 1/4"	5	80
42 x 1 1/4"	5	50
42 x 1 1/2"	5	50
54 x 1 1/2"	2	30
54 x 2"	2	30

Product Guide



Male Straight Adaptor CxMI

Model: 302

Size (mm)	PCS / BAG	PCS / CTN
10 x 1/2"	10	350
15 x 1/2"	10	350
15 x 3/4"	10	200
22 x 1/2"	10	200
22 x 3/4"	10	200
22 x 1"	5	150
28 x 1/2"	5	150
28 x 3/4"	5	150
28 x 1"	5	120
35 x 1/2"	5	120
35 x 3/4"	5	120
35 x 1"	5	80
35 x 1 1/4"	5	80
35 x 1 1/2"	4	80
35 x 2"	2	35
42 x 1 1/4"	4	80
42 x 1 1/2"	4	60
42 x 2"	2	35
54 x 1 1/4"	2	35
54 x 1 1/2"	2	35
54 x 2"	2	30



Elbow CxC

Model: 401

Size (mm)	PCS / BAG	PCS / CTN
10 x 10	10	350
15 x 15	10	300
22 x 22	10	150
28 x 28	5	80
35 x 35	5	50
42 x 42	3	30
54 x 54	1	20



Reducing Elbow CxC

Model: 401RED

Size (mm)	PCS / BAG	PCS / CTN
15 x 10	10	300
22 x 15	10	200
28 x 15	5	100
28 x 22	5	100
35 x 15	5	60
35 x 22	5	50
35 x 28	5	50
42 x 15	3	35
42 x 22	3	35
42 x 28	3	35
42 x 35	3	30
54 x 15	1	25
54 x 22	1	25
54 x 28	1	25
54 x 35	1	20
54 x 42	1	20



Elbow 45 Degree CxC

Model: 401(45)

Size (mm)	PCS / BAG	PCS / CTN
15	10	300
22	10	150
28	5	80
35	5	50
42	3	30
54	1	20
67	-	-

Product Guide



Male Elbow CxMI

Model: 402

Size (mm)	PCS / BAG	PCS / CTN
15 x 1/2"	10	300
15 x 3/4"	10	150
22 x 1/2"	10	200
22 x 3/4"	10	150
22 x 1"	5	80
28 x 1/2"	5	100
28 x 3/4"	5	80
28 x 1"	5	80
35 x 1/2"	5	70
35 x 3/4"	5	70
35 x 1"	5	70
35 x 1 1/4"	5	50
35 x 1 1/2"	5	70
42 x 1/2"	3	60
42 x 3/4"	5	60
42 x 1"	3	36
42 x 1 1/4"	3	36
42 x 1 1/2"	3	30
54 x 1/2"	2	30
54 x 3/4"	2	30
54 x 1"	2	30
54 x 1 1/4"	2	25
54 x 1 1/2"	2	25
54 x 2"	2	20



Female Elbow CxFI

Model: 403

Size (mm)	PCS / BAG	PCS / CTN
15 x 1/2"	10	300
15 x 3/4"	10	150
22 x 1/2"	10	200
22 x 3/4"	10	150
22 x 1"	5	100
28 x 1/2"	5	100
28 x 3/4"	5	100
28 x 1"	5	80
35 x 1/2"	4	50
35 x 3/4"	4	50
35 x 1"	4	50
35 x 1 1/4"	4	50
42 x 3/4"	3	30
42 x 1"	3	30
42 x 1 1/4"	3	30
42 x 1 1/2"	2	30
54 x 3/4"	1	20
54 x 1"	1	20
54 x 1 1/4"	1	20
54 x 1 1/2"	1	20
54 x 2"	1	20



Female Wallplate Elbow CxFI

Model: 453

Size (mm)	PCS / BAG	PCS / CTN
15 x 1/2"	10	150
15 x 3/4"	5	100
22 x 1/2"	5	100
22 x 3/4"	5	80



Tee-Equal CxCxC

Model: 601EQ

Size (mm)	PCS / BAG	PCS / CTN
10 x 10 x 10	10	250
15 x 15 x 15	10	180
22 x 22 x 22	5	100
28 x 28 x 28	5	60
35 x 35 x 35	4	30
42 x 42 x 42	2	20
54 x 54 x 54	1	12

Product Guide



Tee-Reduced Branch CxC

Model: 601RB

Size (mm)	PCS / BAG	PCS / CTN
22 x 22 x 15	5	100
28 x 28 x 15	5	70
28 x 28 x 22	5	70
35 x 35 x 15	4	50
35 x 35 x 22	4	40
35 x 35 x 28	4	40
42 x 42 x 15	2	30
42 x 42 x 22	2	20
42 x 42 x 28	2	20
42 x 42 x 35	2	20
54 x 54 x 15	1	15
54 x 54 x 22	1	15
54 x 54 x 28	1	15
54 x 54 x 35	1	10
54 x 54 x 42	1	10



Tee-Reduced both ends CxCxC

Model: 601REE

Size (mm)	PCS / BAG	PCS / CTN
15 x 15 x 22	10	150
22 x 22 x 28	5	80
35 x 35 x 42	2	25
42 x 42 x 54	1	20



Tee-Male Branch CxCxMI

Model: 615

Size (mm)	PCS / BAG	PCS / CTN
15 x 15 x 1/2"	10	180
15 x 15 x 3/4"	5	100
22 x 22 x 1/2"	5	100
22 x 22 x 3/4"	5	100
28 x 28 x 1"	4	50



Reduced End CxCxC

Model: 601RE

Size (mm)	PCS / BAG	PCS / CTN
22 x 15 x 22	5	100
28 x 15 x 28	5	70
28 x 22 x 28	5	60



Tee-Female Branch CxCxFI

Model: 617

Size (mm)	PCS / BAG	PCS / CTN
15 x 15 x 1/2"	10	180
15 x 15 x 3/4"	10	150
22 x 22 x 1/2"	5	100
22 x 22 x 3/4"	5	100
28 x 28 x 1/2"	5	50
28 x 28 x 3/4"	5	50
28 x 28 x 1"	5	50
35 x 35 x 1"	4	40
42 x 42 x 1/2"	2	20
42 x 42 x 3/4"	2	20
54 x 54 x 1/2"	1	15
54 x 54 x 1 1/2"	1	10



Tee-Reduced End and Branch CxCxC

Model: 601REB

Size (mm)	PCS / BAG	PCS / CTN
22 x 15 x 15	10	150
28 x 15 x 15	5	80
28 x 22 x 22	5	70
35 x 28 x 28	4	45
42 x 35 x 35	2	20
54 x 42 x 42	1	18

Product Guide



Cross CxCxCxC

Model: 901

Size (mm)	PCS / BAG	PCS / CTN
28 x 28 x 28 x 28	3	50
42 x 42 x 22 x 22	1	25
54 x 54 x 22 x 22	1	15
54 x 54 x 28 x 28	1	15



Reducing Set CxC

Model: 068

Size (mm)	PCS / BAG	PCS / CTN
22 x 15	5	500
28 x 15	5	250
28 x 22	5	250
35 x 15	5	150
35 x 22	5	150
35 x 28	5	150
42 x 15	3	150
42 x 22	3	150
42 x 28	3	150
42 x 35	3	150
54 x 15	2	120
54 x 22	2	120
54 x 28	2	120
54 x 35	2	120
54 x 42	2	120



Stop End

Model: 305

Size (mm)	PCS / BAG	PCS / CTN
15	10	500
22	10	300
28	10	150
35	5	90
42	5	75
54	5	50



Hex. Nipple

Model: 312

Size (mm)	PCS / BAG	PCS / CTN
3/4" x 1/2"	10	400
1" x 1/2"	10	200
1" x 3/4"	10	200
1"	10	150
1 1/4"	5	100
1 1/2"	5	60
2"	2	40
2 1/2"	1	20
3"	1	12



Female Thread Socket

Model: 313

Size (mm)	PCS / BAG	PCS / CTN
1/2"	20	500
3/4"	10	200
1"	10	150
1 1/4"	5	80
1 1/2"	5	60
2"	2	50

Product Guide



Bush MixFI

Model: 314

Size (mm)	PCS / BAG	PCS / CTN
1" x 1/2"	10	300
1" x 3/4"	10	300
1 1/4" x 1/2"	10	150
1 1/4" x 3/4"	10	150
1 1/4" x 1"	10	150
1 1/2" x 1/2"	5	100
1 1/2" x 3/4"	5	100
1 1/2" x 1"	5	100
1 1/2" x 1 1/4"	5	100
2" x 1/2"	5	70
2" x 3/4"	5	70
2" x 1"	5	70
2" x 1 1/4"	5	70
2" x 1 1/2"	5	70
2 1/2" x 1 1/4"	2	30
2 1/2" x 1 1/2"	2	30
2 1/2" x 2"	2	30



Female Thread Cap

Model: 317

Size (mm)	PCS / BAG	PCS / CTN
15	20	1000
22	10	500
28	10	250
35	10	140
42	5	100
54	5	60



Union

Model: 318

Size (mm)	PCS / BAG	PCS / CTN
1/2"	10	150
3/4"	5	80
1"	5	50
1 1/4"	4	40
1 1/2"	2	36
2"	1	16



Long Nipple MixFI

Model: 315

Size (mm)	PCS / BAG	PCS / CTN
1/2" x 1"	10	600
1/2" x 1 1/4"	10	450
1/2" x 1 1/2"	10	300
1/2" x 2"	10	300
1/2" x 2 1/2"	10	240
1/2" x 3"	10	180
1/2" x 3 1/2"	10	180
1/2" x 4"	5	180
1/2" x 4 1/2"	5	150
3/4" x 1 1/2"	10	200
3/4" x 2"	10	200
3/4" x 2 1/2"	10	150
3/4" x 3"	10	100
3/4" x 3 1/2"	10	100
3/4" x 4"	5	100

Jointing Techniques

KEMBLA® Compression Fittings with copper tube to BS EN1057

1. Ensure the tube conforms to the specification
2. Select the correct fitting for the size of the tube to be connected
3. Ends of the tube for jointing must be cut cleanly across the tube diameter and to be free from contamination, surface damage or defects
4. Enter the tube through the thrust nut and compression olive fully into the fitting until positive contact is made with the tube stop
5. Make sure the sealing faces of the joint and threads are clean and free from swarf and any contamination. A little light oil applied to the threads of the fittings is useful in reducing friction during tightening. With correct made joints, jointing compounds should not be required although in certain circumstances these may offer practical advantages
6. Care should be taken that the compression olive is not placed over any identification mark or other indentation on the tube
7. Hand tighten the thrust nuts until ALL slack in joint is taken up
8. Complete tightening in accordance with table below, using a suitable spanner. Ensure the axial alignment of the tube and fittings during tightening should be avoided as this may destroy the watertight seal (table below is for guidance purposes only)

12mm	1.1/4 turns
15mm	1.1/4 turns
18mm	1.1/4 turns
22mm	1 turn
28mm	1 turn
35mm	3/4 turn
42mm	3/4 turn
54mm	3/4 turn

Notes: Some Authorities and System Specifications preclude the use of jointing compounds or required that only certain proprietary material may be used. Before utilizing jointing compound it is the responsibility of the installer to ensure compliance.

Male and Female Joints:

Taper threads should be assembled using sealant or tape, e.g. PTFE. Parallel threads should be assembled using washers



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