

# KEMBLA

## COPPER PLUMBING TUBE

### NEW ZEALAND STANDARD NZS3501



## Product Range

- Kembla distributes the full range of New Zealand standard copper plumbing and gas tube overnight from stocking points in both the North and South Islands of New Zealand.
- Good stocks are maintained of all sizes from 15mm (1/2 inch) diameter through to 150mm (6 inch) diameter tube. Larger sizes are available to special order.
- The full range is available in 5 meter straight lengths, while 15mm and 20mm standard gauge tube is also available in 15 meter annealed coils for joint free installation. The range includes half hard temper for easy bending in sizes up to and including 25mm, as well as pre-lagged 'kemlag' copper tube for underground installation.

## Features and Benefits

- All Kembla copper tube is manufactured in Australia from Australian sourced copper.
- All Kembla tube is permanently marked to certify it's compliance with the New Zealand plumbing standard, and to provide product tracing information for the life of the installation.
- Copper tube is one of the few building products nominated as an acceptable solution in the New Zealand Building Code, eliminating compliance issues for specifiers and installers.
- Copper tube has the largest bore of all tube systems, providing maximum flow rates.
- Lightweight and compact sizes ease installation and save space.
- High mechanical and thermal strength protects the system from damage, both during installation and while in service.
- Compatible with most water types throughout New Zealand.
- Proven in service in New Zealand over more than 50years.
- Skilled and experienced installer base throughout New Zealand.
- Kembla copper tube does NOT harden or soften with age unlike plastics.
- Kembla copper tube is 100% UV stabilised – plastics have limited UV stability.
- Kembla copper tube has a melting temperature of 1083° - many times that of plastics.
- Kembla copper tube has a high mechanical strength and high impact resistance.
- Kembla copper tube is fully approved for gas applications.
- Kembla copper tube and fittings sizes are standardised and interchangeable.
- Kembla has achieved AS4041 'Material in Contact with Drinking Water' standards approval – the tightest international specification for water drinking systems.

## INSTALLATION

- Half-hard tempered copper tube can be easily bent to tight radius using simple hand tools.
- Full ranges of copper tube fittings are available to complete larger bore tube installations.
- A complete range of Kembla manufactured fittings, brass compression fittings and Victaulic fittings are available in various sizes.

## RECOMMENDED FOR

- Plumbing
- Gas Fitting
- Drainage
- Sanitation



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## Copper Tube for Plumbing, Gas fitting and Sanitation

| Table | Nom Size (mm) | Actual Size (mm) |                | Availability  | Temper as Supplied |           |          | Safe Working Pressure (Mpa) |
|-------|---------------|------------------|----------------|---------------|--------------------|-----------|----------|-----------------------------|
|       |               | Outside Diameter | Wall Thickness |               | Annealed           | Half Hard | As Drawn |                             |
| 1     | 15            | 14.73            | 1.02           |               | √                  | √         |          | 5.45                        |
|       | 20            | 21.08            | 1.02           |               | √                  | √         |          | 3.73                        |
|       | 25            | 27.43            | 1.02           |               |                    | √         |          | 2.84                        |
|       | 32            | 34.19            | 1.22           |               |                    |           | √        | 2.72                        |
|       | 40            | 40.54            | 1.22           |               |                    |           | √        | 2.28                        |
|       | 50            | 53.24            | 1.22           |               |                    |           | √        | 1.73                        |
|       | 65            | 65.94            | 1.22           |               |                    |           | √        | 1.39                        |
|       | 80            | 79.45            | 1.63           | Special Order |                    |           | √        | 1.54                        |
|       | 90            | 92.56            | 1.83           | Special Order |                    |           | √        | 1.49                        |
|       | 100           | 105.66           | 2.03           | Special Order |                    |           | √        | 1.44                        |
| 2     | 25            | 27.43            | 1.02           |               |                    |           | √        | 2.84                        |
|       | 32            | 34.19            | 1.22           |               |                    |           | √        | 2.72                        |
|       | 40            | 40.54            | 1.22           |               |                    |           | √        | 2.28                        |
|       | 50            | 53.24            | 1.22           |               |                    |           | √        | 1.73                        |
|       | 65            | 65.94            | 1.22           |               |                    |           | √        | 1.39                        |
|       | 80            | 79.45            | 1.42           |               |                    |           | √        | 1.34                        |
|       | 90            | 92.56            | 1.63           | Special Order |                    |           | √        | 1.32                        |
|       | 100           | 105.66           | 1.63           |               |                    |           | √        | 1.15                        |
|       | 150           | 156.06           | 1.83           |               |                    |           | √        | 0.78                        |
|       | 200           | 194.50           | 3.00           | Special Order |                    |           | √        | 0.70                        |
|       | 250           | 268.00           | 3.00           | Special Order |                    |           | √        | 0.83                        |
| 300   | 324.90        | 4.00             | Special Order  |               |                    | √         | 0.92     |                             |
| 3     | 15            | 14.73            | 0.70           |               |                    | √         |          | 3.66                        |
|       | 20            | 21.08            | 0.90           |               |                    | √         |          | 3.28                        |

MM Kembla Copper tubes, manufactured to NZS 3501, are identified along the length with both in-cise marking and ink marking.

These include a colour code identifying MM Kembla's name as the manufacturer, the NZS standard table no, Kembla's licence #2025, the standards mark, nominal diameter, wall thickness, the tube temper (HH or HD) and a unique quality system tracking number.

**15–20mm Lightweight — Bendable — Blue Marking**

**15– 25mm Standard Wall — Bendable — Red Marking**

**32–150mm Standard Wall — Hard Drawn — Blue Marking**

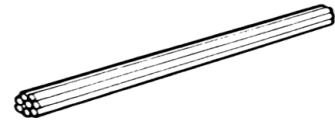
| Nominal Bore<br>(mm) (inch) | Wall<br>(mm) | Temper | Order<br>Code | Bundle<br>Size |
|-----------------------------|--------------|--------|---------------|----------------|
|-----------------------------|--------------|--------|---------------|----------------|

## Kembla Copper Tube To Suit NZS3501 Tables 1, 2 & 3

### Standard Wall Thickness — 5m lengths

**Table 1** (Ink Marked with a Continuous RED Dash)

|    |      |      |     |            |     |
|----|------|------|-----|------------|-----|
| 15 | 1/2" | 1.02 | H.H | KP2015102S | 100 |
| 20 | 3/4" | 1.02 | H.H | KP2020102S | 100 |
| 25 | 1"   | 1.02 | H.H | KP2025102S | 75  |



**Table 2** (Ink Marked with a Continuous BLUE Dash)

|     |        |      |     |            |    |
|-----|--------|------|-----|------------|----|
| 32  | 1 1/4" | 1.22 | H.D | KPH032122S | 75 |
| 40  | 1 1/2" | 1.22 | H.D | KPH040122S | 75 |
| 50  | 2"     | 1.22 | H.D | KPH050122S | 50 |
| 65  | 2 1/2" | 1.22 | H.D | KPH065122S | 35 |
| 80  | 3"     | 1.42 | H.D | KPH080142S | 25 |
| 100 | 4"     | 1.63 | H.D | KPH100163S | 14 |
| 150 | 6"     | 1.83 | H.D | KPH150183S | 1  |

### Light Gauge — 5m lengths

**Table 3** (Ink Marked with a Continuous BLUE Dash)

|    |      |      |     |            |     |
|----|------|------|-----|------------|-----|
| 15 | 1/2" | 0.70 | H.H | KP2015070S | 100 |
| 20 | 3/4" | 0.90 | H.H | KP2020090S | 100 |

### Kemlag — 5m lengths

**Table 1**

|    |      |      |     |             |   |
|----|------|------|-----|-------------|---|
| 15 | 1/2" | 1.02 | H.H | KLAG015102S | 1 |
| 20 | 3/4" | 1.02 | H.H | KLAG020102S | 1 |

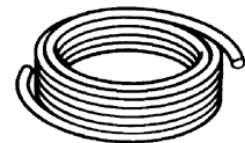
| Actual OD<br>(mm) (inch) | Wall<br>(mm) | Coil Size<br>(mtrs) | Order<br>Code | Carton<br>Quantity |
|--------------------------|--------------|---------------------|---------------|--------------------|
|--------------------------|--------------|---------------------|---------------|--------------------|

## Plumbing & Gas Coils

### Soft Coils for Plumbing & Gas (NZS 3501)

**Table 1** (Ink Marked with a Continuous RED Dash)

|       |      |      |    |            |   |
|-------|------|------|----|------------|---|
| 14.73 | 1/2" | 1.02 | 15 | KPA015102C | 5 |
| 21.08 | 3/4" | 1.02 | 15 | KPA020102C | 4 |



### Soft Coils for Gas Only (AS/NZS 1571:1995)

|       |      |      |    |              |    |
|-------|------|------|----|--------------|----|
| 6.35  | 1/4" | 0.71 | 15 | KRA006071C15 | 10 |
| 9.52  | 3/8" | 0.71 | 15 | KRA010071C15 | 8  |
| 12.70 | 1/2" | 0.71 | 15 | KRA013071C15 | 6  |
| 19.05 | 3/4" | 0.89 | 15 | KRA019089C15 | 4  |