

Seamless Copper Tube/Coil
Dimension Specifications:

JIS H3300 C1220T – Standard that specifies expanded copper and copper alloy seamless pipes and tubes, having round section.

ASTM B88 – Standard specifications for seamless copper tube that suitable for general plumbing, similar applications for the conveyance of fluids, and commonly used with solder, flared, or compression-type fittings.


Chemical Composition & Mechanical Properties

		Chemical Composition %		Tensile Strength N/mm ²
		Cu	P	
C1220T Copper Tube	Min.	99.90	0.015	315
	Max.		0.040	
C1220T Copper Coil	Min.	99.90	0.015	245
	Max.		0.040	324
B88 Copper Tube	Min.	99.90	0.015	250
	Max.		0.040	


Recommended Bend Radius

A bend radius of 3x the external tube diameter is recommended for cold bending of tubes with tube benders or by hand. (As per Figure 1)

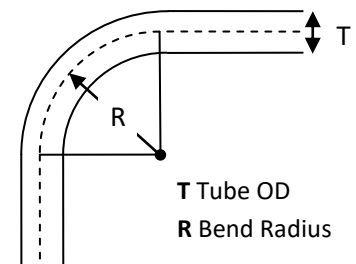


Figure 1 Recommended Bend Radius

Ordering Information:

 TC - T - FH - MM - 6 X 1.5
 I II III IV V VI

- I Type of Item** : TC Copper Tubes/Coils
- II Material Type** : T Tubes
C Coils
- III Item Finish** : FH Half Hard
HH Full Hard
- IV Size Designator** : MM Metric Size
IN Inches Size
NB Nominal Bore Size
K Type K Copper Tube
L Type L Copper Tube
- V OD for tube** :

For tubes in Metric OD Sizes

Size	6MM	12MM	20MM	35MM	38MM	42MM
Code	6	12	20		35	38	42

For Inch OD /NB Sizes

Size	1/8"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Code	02	04	05	06	08	10	12
Size	1"	1 1/4"	1 1/2"	2"			
Code	16	20	24	32			

VI Tube Thickness :

For Metric OD Sizes

Size	1.0MM	1.5MM	2.0MM	4.0MM	5.0MM	10.0MM
Code	1.0	1.5	2.0		4.0	5.0	10.0

For Inch OD Sizes

Size	0.035"	0.049"	0.065"	0.083"	0.095"
Code	035	049	065	083	095
Size	0.109"	0.120"	0.134"	0.156"	0.188"
Code	109	120	134	156	188

Seamless Copper Tube/Coil JIS H3300 C1220T

No.	Part Number	Description	Weight/ 6mtr (kg)
1	TC-C-FH-IN-05X0.85	5/16"OD x 0.85MM THK x 15 MTR COPPER COIL	1.97
2	TC-C-FH-IN-05X0.89	5/16"OD x 0.89MM THK x 15 MTR COPPER COIL	2.05
3	TC-C-FH-IN-05X1.5	5/16"OD x 1.5MM THK x 15 MTR COPPER COIL	3.07
4	TC-C-FH-IN-04X0.71	1/4"OD x 0.71MM THK x 15 MTR COPPER COIL	1.69
5	TC-C-FH-IN-04X0.85	1/4"OD x 0.85MM THK x 15 MTR COPPER COIL	1.97
6	TC-C-FH-IN-04X0.89	1/4"OD x 0.89MM THK x 15 MTR COPPER COIL	2.05
7	TC-C-FH-IN-04X1.24	1/4"OD x 1.24MM THK x 15 MTR COPPER COIL	2.67
8	TC-C-FH-IN-06X0.89	3/8"OD x 0.89MM THK x 15 MTR COPPER COIL	3.24
9	TC-C-FH-IN-06X1.2	3/8"OD x 1.2MM THK x 15 MTR COPPER COIL	4.21
10	TC-C-FH-IN-06X1.5	3/8"OD x 1.5MM THK x 15 MTR COPPER COIL	5.07
11	TC-C-FH-IN-08X0.71	1/2"OD x 0.71MM THK x 15 MTR COPPER COIL	3.59
12	TC-C-FH-IN-08X0.89	1/2"OD x 0.89MM THK x 15 MTR COPPER COIL	4.43
13	TC-C-FH-IN-08X1.2	1/2"OD x 1.2MM THK x 15 MTR COPPER COIL	5.82
14	TC-C-FH-IN-08X1.5	1/2"OD x 1.5MM THK x 15 MTR COPPER COIL	7.08
15	TC-C-FH-IN-10X1.2	5/8"OD x 1.2MM THK x 15 MTR COPPER COIL	7.42
16	TC-C-FH-IN-10X1.5	5/8"OD x 1.5MM THK x 15 MTR COPPER COIL	9.09
17	TC-C-FH-IN-12X1.2	3/4"OD x 1.2MM THK x 15 MTR COPPER COIL	9.03
18	TC-C-FH-IN-12X1.5	3/4"OD x 1.5MM THK x 15 MTR COPPER COIL	11.1
19	TC-C-FH-MM-6X1.0	6MM OD x 1.0MM THK x 15 MTR COPPER COIL	2.11
20	TC-C-FH-MM-8X1.0	8MM OD x 1.0MM THK x 15 MTR COPPER COIL	2.95
21	TC-C-FH-MM-8X1.2	8MM OD x 1.2MM THK x 15 MTR COPPER COIL	3.44
22	TC-C-FH-MM-10X1.0	10MM OD x 1.0MM THK x 15 MTR COPPER COIL	3.79
23	TC-C-FH-MM-10X1.2	10MM OD x 1.2MM THK x 15 MTR COPPER COIL	4.45
24	TC-C-FH-MM-10X1.5	10MM OD x 1.5MM THK x 15 MTR COPPER COIL	5.37
25	TC-C-FH-MM-12X1.0	12MM OD x 1.0MM THK x 15 MTR COPPER COIL	4.64
26	TC-C-FH-MM-12X1.2	12MM OD x 1.2MM THK x 15 MTR COPPER COIL	5.46
27	TC-C-FH-MM-12X1.5	12MM OD x 1.5MM THK x 15 MTR COPPER COIL	6.64
28	TC-C-FH-MM-15X1.2	15MM OD x 1.2MM THK x 15 MTR COPPER COIL	6.98
29	TC-C-FH-MM-15X1.5	15MM OD x 1.5MM THK x 15 MTR COPPER COIL	8.54
30	TC-T-FH-IN-05X0.9	5/16"OD x 0.9MM THK x 6 MTR COPPER TUBE	1.07
31	TC-T-FH-IN-05X1.2	5/16"OD x 1.2MM THK x 6 MTR COPPER TUBE	1.36
32	TC-T-FH-IN-05X1.5	5/16"OD x 1.5MM THK x 6 MTR COPPER TUBE	1.63
33	TC-T-FH-IN-04X0.9	1/4"OD x 0.9MM THK x 6 MTR COPPER TUBE	0.83
34	TC-T-FH-IN-04X1.2	1/4"OD x 1.2MM THK x 6 MTR COPPER TUBE	1.04
35	TC-T-FH-IN-06X1.2	3/8"OD x 1.2MM THK x 6 MTR COPPER TUBE	1.68
36	TC-T-FH-IN-06X1.5	3/8"OD x 1.5MM THK x 6 MTR COPPER TUBE	2.03
37	TC-T-FH-IN-08X1.2	1/2"OD x 1.2MM THK x 6 MTR COPPER TUBE	2.33
38	TC-T-FH-IN-08X1.5	1/2"OD x 1.5MM THK x 6 MTR COPPER TUBE	2.83
39	TC-T-FH-IN-10X0.89	5/8"OD x 0.89MM THK x 6 MTR COPPER TUBE	2.25
40	TC-T-FH-IN-10X1.5	5/8"OD x 1.5MM THK x 6 MTR COPPER TUBE	3.64
41	TC-T-FH-IN-10X3.0	5/8"OD x 3.0MM THK x 6 MTR COPPER TUBE	6.51
42	TC-T-FH-IN-12X1.2	3/4"OD x 1.2MM THK x 6 MTR COPPER TUBE	3.61
43	TC-T-FH-IN-12X1.5	3/4"OD x 1.5MM THK x 6 MTR COPPER TUBE	4.44
44	TC-T-FH-IN-12X3.0	3/4"OD x 3.0MM THK x 6 MTR COPPER TUBE	8.12
45	TC-T-FH-IN-14X1.2	7/8"OD x 1.2MM THK x 6 MTR COPPER TUBE	4.25
46	TC-T-FH-IN-14X1.5	7/8"OD x 1.5MM THK x 6 MTR COPPER TUBE	5.24
47	TC-T-FH-IN-16X1.5	1"OD x 1.5MM THK x 6 MTR COPPER TUBE	6.04
48	TC-T-FH-IN-16X3.0	1"OD x 3.0MM THK x 6 MTR COPPER TUBE	11.33
49	TC-T-FH-IN-18X1.5	1 1/8"OD x 1.5MM THK x 6 MTR COPPER TUBE	6.85

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No.	Part Number	Description	Weight/ 6mtr (kg)
50	TC-T-FH-IN-18X2.0	1 1/8"OD x 2.0MM THK x 6 MTR COPPER TUBE	8.96
51	TC-T-FH-IN-18X3.0	1 1/8"OD x 3.0MM THK x 6 MTR COPPER TUBE	12.94
52	TC-T-FH-IN-20X1.5	1 1/4"OD x 1.5MM THK x 6 MTR COPPER TUBE	7.65
53	TC-T-FH-MM-06X1.0	6MM OD x 1.0MM THK x 6 MTR COPPER TUBE	0.84
54	TC-T-FH-MM-08X1.0	8MM OD x 1.0MM THK x 6 MTR COPPER TUBE	1.18
55	TC-T-FH-MM-08X1.2	8MM OD x 1.2MM THK x 6 MTR COPPER TUBE	1.38
56	TC-T-FH-MM-08X1.5	8MM OD x 1.5MM THK x 6 MTR COPPER TUBE	1.64
57	TC-T-FH-MM-10X1.0	10MM OD x 1.0MM THK x 6 MTR COPPER TUBE	1.52
58	TC-T-FH-MM-10X1.2	10MM OD x 1.2MM THK x 6 MTR COPPER TUBE	1.78
59	TC-T-FH-MM-10X1.5	10MM OD x 1.5MM THK x 6 MTR COPPER TUBE	2.15
60	TC-T-FH-MM-12X1.0	12MM OD x 1.0MM THK x 6 MTR COPPER TUBE	1.85
61	TC-T-FH-MM-12X1.2	12MM OD x 1.2MM THK x 6 MTR COPPER TUBE	2.19
62	TC-T-FH-MM-12X1.5	12MM OD x 1.5MM THK x 6 MTR COPPER TUBE	2.66
63	TC-T-FH-MM-12X2.0	12MM OD x 2.0MM THK x 6 MTR COPPER TUBE	3.37
64	TC-T-FH-MM-14X1.0	14MM OD x 1.0MM THK x 6 MTR COPPER TUBE	2.19
65	TC-T-FH-MM-14X1.5	14MM OD x 1.5MM THK x 6 MTR COPPER TUBE	3.16
66	TC-T-FH-MM-15X1.2	15MM OD x 1.2MM THK x 6 MTR COPPER TUBE	2.79
67	TC-T-FH-MM-15X1.5	15MM OD x 1.5MM THK x 6 MTR COPPER TUBE	3.41
68	TC-T-FH-MM-15X2.0	15MM OD x 2.0MM THK x 6 MTR COPPER TUBE	4.38
69	TC-T-FH-MM-16X1.0	16MM OD x 1.0MM THK x 6 MTR COPPER TUBE	2.53
70	TC-T-FH-MM-16X1.2	16MM OD x 1.2MM THK x 6 MTR COPPER TUBE	2.99
71	TC-T-FH-MM-16X1.5	16MM OD x 1.5MM THK x 6 MTR COPPER TUBE	3.67
72	TC-T-FH-MM-18X1.2	18MM OD x 1.2MM THK x 6 MTR COPPER TUBE	3.4
73	TC-T-FH-MM-18X1.5	18MM OD x 1.5MM THK x 6 MTR COPPER TUBE	4.17
74	TC-T-FH-MM-20X1.2	20MM OD x 1.2MM THK x 6 MTR COPPER TUBE	3.8
75	TC-T-FH-MM-20X1.5	20MM OD x 1.5MM THK x 6 MTR COPPER TUBE	4.68
76	TC-T-FH-MM-20X2.0	20MM OD x 2.0MM THK x 6 MTR COPPER TUBE	6.07
77	TC-T-FH-MM-22X1.2	22MM OD x 1.2MM THK x 6 MTR COPPER TUBE	4.21
78	TC-T-FH-MM-22X1.5	22MM OD x 1.5MM THK x 6 MTR COPPER TUBE	5.18
79	TC-T-FH-MM-25X1.5	25MM OD x 1.5MM THK x 6 MTR COPPER TUBE	5.94
80	TC-T-FH-MM-25X2.0	25MM OD x 2.0MM THK x 6 MTR COPPER TUBE	7.76
81	TC-T-FH-MM-28X1.5	28MM OD x 1.5MM THK x 6 MTR COPPER TUBE	6.7
82	TC-T-FH-MM-30X1.5	30MM OD x 1.5MM THK x 6 MTR COPPER TUBE	7.21
83	TC-T-FH-MM-35X1.5	35MM OD x 1.5MM THK x 6 MTR COPPER TUBE	8.47
84	TC-T-FH-MM-38X1.5	38MM OD x 1.5MM THK x 6 MTR COPPER TUBE	9.23
85	TC-T-FH-MM-54X2.0	54MM OD x 2.0MM THK x 6 MTR COPPER TUBE	17.53

Seamless Copper Tube ASTM B-88 ALLOY C122 (DHP)
Dimension Properties of the tubes (Type K)

NOMINAL TUBE SIZE IN INCHES TYPE K	OUTER DIAMETER IN INCHES TYPE K	TOLERANCE O.D. IN INCHES TYPE K		NOMINAL WALL THICKNESS IN INCHES TYPE K	WEIGHT PER FOOT IN LBS TYPE K	HARD DRAWN	
		MIN.	MAX.			W.P (PSI)	B.P (PSI)
1/4"NB	0.375"	0.374"	0.376"	0.035"	0.145	1595	-
3/8"NB	0.500"	0.499"	0.501"	0.049"	0.269	1745	-
1/2"NB	0.625"	0.624"	0.626"	0.049"	0.344	1375	9840
5/8"NB	0.750"	0.749"	0.751"	0.049"	0.418	1135	-
3/4"NB	0.875"	0.874"	0.876"	0.065"	0.641	1315	9300
1"NB	1.125"	1.1235"	1.1265"	0.065"	0.839	1010	7200
1 1/4"NB	1.375"	1.3735"	1.3765"	0.065"	1.04	820	5525
1 1/2"NB	1.625"	1.623"	1.627"	0.072"	1.36	765	5000
2"NB	2.125"	2.123"	2.127"	0.083"	2.06	665	3915
2 1/2"NB	2.625"	2.623"	2.627"	0.095"	2.92	520	3575
3"NB	3.125"	3.123"	3.127"	0.109"	4.00	605	3450
3 1/2"NB	3.625"	3.623"	3.627"	0.120"	5.12	570	-
4"NB	4.125"	4.123"	4.127"	0.134"	6.51	555	3415
5"NB	5.125"	5.123"	5.127"	0.160"	9.67	540	3585
6"NB	6.125"	6.123"	6.127"	0.192"	13.87	540	3425
8"NB	8.125"	8.121"	8.127"	0.271"	25.90	580	3635
10"NB	10.125"	10.119"	10.127"	0.338"	40.30	585	-
12"NB	12.125"	12.119"	12.127"	0.405"	57.80	585	-

Dimension Properties of the tubes (Type L)

NOMINAL TUBE SIZE IN INCHES TYPE L	OUTER DIAMETER IN INCHES TYPE L	TOLERANCE O.D. IN INCHES TYPE L		NOMINAL WALL THICKNESS IN INCHES TYPE L	WEIGHT PER FOOT IN LBS TYPE L	HARD DRAWN	
		MIN.	MAX.			W.P (PSI)	B.P (PSI)
1/4"NB	0.375"	0.374"	0.376"	0.030"	0.126	1350	-
3/8"NB	0.500"	0.499"	0.501"	0.035"	0.198	1195	-
1/2"NB	0.625"	0.624"	0.626"	0.040"	0.285	1105	7765
5/8"NB	0.750"	0.749"	0.751"	0.042"	0.362	965	-
3/4"NB	0.875"	0.874"	0.876"	0.045"	0.455	875	5900
1"NB	1.125"	1.1235"	1.1265"	0.050"	0.655	770	5115
1 1/4"NB	1.375"	1.3735"	1.3765"	0.055"	0.884	680	4550
1 1/2"NB	1.625"	1.623"	1.627"	0.060"	1.14	630	4100
2"NB	2.125"	2.123"	2.127"	0.070"	1.75	555	3365
2 1/2"NB	2.625"	2.623"	2.627"	0.080"	2.48	520	3215
3"NB	3.125"	3.123"	3.127"	0.090"	3.33	490	2865
3 1/2"NB	3.625"	3.623"	3.627"	0.100"	4.29	470	-
4"NB	4.125"	4.123"	4.127"	0.110"	5.38	450	2865
5"NB	5.125"	5.123"	5.127"	0.125"	7.61	410	2985
6"NB	6.125"	6.123"	6.127"	0.140"	10.2	385	2690
8"NB	8.125"	8.121"	8.127"	0.200"	19.29	420	2650
10"NB	10.125"	10.119"	10.127"	0.250"	30.1	425	-
12"NB	12.125"	12.119"	12.127"	0.280"	40.4	395	-

Note: Information and data contained in these charts as taken from ASTM Specification No. B-88, Federal Specification WW-T-799, and various Copper Tube Mill chart standards.

(↑) Based upon 150°F. with an allowable stress of 9000 p.s.i.

(*) Based on actual laboratory test data provided by Copper Development Association Inc.

(●) Rated internal pressure for copper water tube based on the strength of the tube alone and applicable to systems using mechanical joints.

No.	Part Number	Description	Weight/ 6mtr (kg)
1	TC-T-FH-K-04	1/4"NB x 6 MTR TYPE K COPPER TUBE	1.3
2	TC-T-FH-K-06	3/8"NB x 6 MTR TYPE K COPPER TUBE	2.4
3	TC-T-FH-K-08	1/2"NB x 6 MTR TYPE K COPPER TUBE	3.07
4	TC-T-FH-K-10	5/8"NB x 6 MTR TYPE K COPPER TUBE	3.74
5	TC-T-FH-K-12	3/4"NB x 6 MTR TYPE K COPPER TUBE	5.73
6	TC-T-FH-K-16	1"NB x 6 MTR TYPE K COPPER TUBE	7.5
7	TC-T-FH-K-20	1 1/4"NB x 6 MTR TYPE K COPPER TUBE	9.26
8	TC-T-FH-K-24	1 1/2"NB x 6 MTR TYPE K COPPER TUBE	12.16
9	TC-T-FH-K-32	2"NB x 6 MTR TYPE K COPPER TUBE	18.44
10	TC-T-FH-K-40	2 1/2"NB x 6 MTR TYPE K COPPER TUBE	26.14
11	TC-T-FH-K-48	3"NB x 6 MTR TYPE K COPPER TUBE	35.76
12	TC-T-FH-K-64	4"NB x 6 MTR TYPE K COPPER TUBE	58.17
13	TC-T-FH-L-04	1/4"NB x 6 MTR TYPE L COPPER TUBE	1.13
14	TC-T-FH-L-06	3/8"NB x 6 MTR TYPE L COPPER TUBE	1.77
15	TC-T-FH-L-08	1/2"NB x 6 MTR TYPE L COPPER TUBE	2.55
16	TC-T-FH-L-12	3/4"NB x 6 MTR TYPE L COPPER TUBE	4.06
17	TC-T-FH-L-16	1"NB x 6 MTR TYPE L COPPER TUBE	5.85
18	TC-T-FH-L-20	1 1/4"NB x 6 MTR TYPE L COPPER TUBE	7.9
19	TC-T-FH-L-24	1 1/2"NB x 6 MTR TYPE L COPPER TUBE	10.22
20	TC-T-FH-L-32	2"NB x 6 MTR TYPE L COPPER TUBE	15.65
21	TC-T-FH-L-40	2 1/2"NB 6 MTR TYPE L COPPER TUBE	22.15
22	TC-T-FH-L-48	3"NB x 6 MTR TYPE L COPPER TUBE	29.71
23	TC-T-FH-L-64	4"NB x 6 MTR TYPE L COPPER TUBE	48.04

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