

# CD

# Copper Tube

## Copper Coils

- Copper Coil (ASTM B280)..... C 2
- Copper Coil (EN12735-1)..... C 2
- Copper Coil (ASTM B837)..... C 3



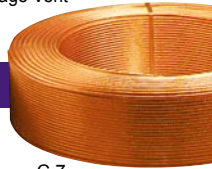
## Copper Straight Tube

- Copper Straight Tube (ASTM B280)..... C 3
- Copper Straight Tube (EN12735-1)..... C 4



## Copper Plumbing Tube

- Copper Tube for Plumbing & Drainage Vent  
..... C 5



## LWC

- LWC..... C 7

## Capillary Tube

- Capillary Tube..... C 8



## Copper Fin Tube

- High Fin Tube ..... C 9
- Boiling Tube..... C 10
- Straight Inner Grooved Copper Tube  
..... C 11
- Low Fin Tube..... C 12
- Cooling Tube ..... C 13
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## Copper Coils



### Refrigeration Tubes As Per Astm B280, In Coils, Soft Temper

ENDS CAPPED, IN SHRINKING WRAPPED BAG IN CARDBOARD BOX

Outside Diameter		Wall Thickness (inch/mm)					Nominal Weight (kgs)		Packing	
(inch)	(mm)	0.030 0.76	0.032 0.81	0.035 0.89	0.045 1.14	0.050 1.27	(15 Meters)	(15.24 Meters)	Carton Dimension(cm <sup>3</sup> )	Coils per Carton
3/16	4.76						1.28	1.30	40x40x18.5	16
1/4	6.35						1.78	1.81	40x40x18.5	12
5/16	7.94						2.43	2.46	40x40x18.5	10
3/8	9.52						2.96	3.01	45x45x18.5	8
1/2	12.70						4.04	4.11	50x50x18.5	6
5/8	15.88						5.60	5.69	55x55x18.5	5
3/4	19.05						6.79	6.90	60x60x18.5	4
7/8	22.22						10.09	10.25	65x65x18.5	3
1-1/8	28.58						14.57	14.80	92x92x3.3	1

### Refrigeration Tubes As Per En12735-1, In Coils, Soft Temper (R220)

ENDS CAPPED, IN SHRINKING WRAPPED BAG IN CARDBOARD BOX

Outside Diameter		Wall Thickness	Nominal Weight (kgs)		Packing	
(inch)	(mm)	(mm)	(15 Meters)	(15.24 Meters)	Carton Dimension(cm <sup>3</sup> )	Coils per Carton
3/16	4.76	0.8	1.33	1.35	40x40x18.5	16
	6.35	0.8	1.86	1.89	40x40x18.5	12
1/4	6.35	1.0	2.25	2.28	40x40x18.5	12
	7.94	0.8	2.40	2.44	40x40x18.5	10
5/16	7.94	1.0	2.91	2.96	40x40x18.5	10
3/8	9.52	0.8	2.93	2.98	45x45x18.5	8
3/8	9.52	1.0	3.58	3.64	45x45x18.5	8
1/2	12.70	0.8	4.00	4.06	50x50x18.5	6
1/2	12.70	1.0	4.91	4.99	50x50x18.5	6
5/8	15.88	1.0	6.25	6.35	55x55x18.5	5
3/4	19.05	1.0	7.58	7.70	60x60x18.5	4
7/8	22.22	1.0	8.91	9.06	65x65x18.5	3
	8	0.8	2.42	2.46	40x40x18.5	10
	8	1.0	2.94	2.99	40x40x18.5	10
	10	0.8	3.09	3.14	45x45x18.5	8
	10	1.0	3.78	3.84	45x45x18.5	8
	12	1.0	4.62	4.69	50x50x18.5	6
	15	1.0	5.88	5.97	55x55x18.5	5
	18	1.0	7.14	7.25	60x60x18.5	4
	22	1.0	8.82	8.96	65x65x18.5	3

## Natural Gas And Lpg As Per Astm B837, In Coils, Soft Temper.

ENDS CAPPED, IN SHRINKING WRAPPED BAG IN  
CARDBOARD BOX

Outside Diameter		Wall Thickness		Nominal Weight (kgs)		Packing	
(inch)	(mm)	(inch)	(mm)	(60 FT)	(18 Meters)	Carton Dimension(cm <sup>3</sup> )	Coils per Carton
3/8	9.52	0.030	0.76	3.41	3.36	45 x 45 x 18.5	8
1/2	12.70	0.035	0.89	5.38	5.30	50 x 50 x 18.5	6
5/8	15.88	0.040	1.02	7.76	7.64	55 x 55 x 18.5	5
3/4	19.05	0.042	1.07	9.85	9.70	60 x 60 x 18.5	4
7/8	22.22	0.045	1.14	12.31	12.11	65 x 65 x 18.5	3

## Refrigeration Tubes As Per Astm B280, Straight Lengths, Hard Temper

ENDS CAPPED, WOODEN BOX PACKING

Outside Diameter		Wall Thickness		Nominal Weight (kgs)	
(inch)	(mm)	(inch)	(mm)	(5.8 Meters)	(6 Meters)
3/8	9.52	0.030	0.76	1.08	1.12
1/2	12.70	0.035	0.89	1.71	1.77
5/8	15.88	0.040	1.02	2.46	2.55
3/4	19.05	0.042	1.07	3.12	3.23
7/8	22.22	0.045	1.14	3.90	4.04
1-1/8	28.58	0.050	1.27	5.63	5.83
1-3/8	34.93	0.055	1.40	7.62	7.88
1-5/8	41.28	0.060	1.52	9.81	10.15
2-1/8	53.98	0.070	1.78	15.09	15.61
2-5/8	66.67	0.080	2.03	21.31	22.05
3-1/8	79.38	0.090	2.29	28.67	29.66
3-5/8	92.08	0.100	2.54	36.93	38.21
4-1/8	105	0.110	2.79	46.31	47.91

## Copper Straight Tube



### Imperial Standard Wire Gauges (SWG)

SWG Number	inch	mm
16	0.064	1.63
17	0.056	1.42
18	0.048	1.22
19	0.040	1.02
20	0.036	0.91
21	0.032	0.81
22	0.028	0.71
23	0.024	0.61
24	0.022	0.56
25	0.020	0.51
26	0.018	0.46
27	0.016	0.41

# Copper Straight Tube

## Refrigeration Tubes As Per En 12735-1, Straight Lengths, Hard Temper(R290), Half Hard Temper (R250)



ENDS CAPPED, WOODEN BOX PACKING

Outside Diameter		Wall Thickness	Nominal Weight (kgs)	
(inch)	(mm)		(mm)	(5.8 Meters)
1/2	12.7	1	1.90	1.97
5/8	15.88	1	2.42	2.50
3/4	19.05	1.25	3.61	3.74
7/8	22.22	1.25	4.26	4.40
1	25.40	1	3.96	4.10
1 1/8	28.58	1	4.48	4.63
1 1/8	28.58	1.25	5.55	5.74
1 3/8	34.92	1.25	6.84	7.07
1 5/8	41.27	1.25	8.12	8.40
2 1/8	53.97	1.25	10.70	11.07
2 1/8	53.97	1.65	14.02	14.50
2 5/8	66.67	1.25	13.28	13.74
2 5/8	66.67	1.65	17.42	18.02
2 5/8	66.67	2	21.00	21.73
3 1/8	79.37	1.65	20.83	21.54
3 1/8	79.37	2.5	31.21	32.29
3 1/2	88.90	2	28.23	29.20
3 5/8	92.07	1.65	24.23	21.07
3 5/8	92.07	2.5	36.37	37.62
4 1/8	104.80	1.65	27.63	28.59
4 1/8	104.80	2.5	41.53	42.96
	6	0.8	0.68	0.70
	8	0.8	0.94	0.97
	10	0.8	1.20	1.24
	10	1	1.46	1.51
	12	1	1.79	1.85
	15	1	2.27	2.35
	18	1	2.76	2.86
	22	1	3.41	3.53
	28	1.5	6.46	6.68
	35	1.5	8.16	8.44
	42	1.5	9.87	10.21
	54	2	16.89	17.47
	64	2	20.14	20.83
	76.10	2	24.07	24.90
	108	2.5	42.83	44.31

# COPPER TUBES FOR PLUMBING AS PER EN1057

## SPECIFICATIONS

Phosphorus Deoxidised, copper tubes alloy CW024A, or  
Cu-DHP

Temper: soft temper R-220, half-hard temper R-250, hard  
temper R-290

Nominal outside diameter	Nominal wall thicknesses												
	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.5	2.0	2.5	3.0	
O.D.													
6		●		●		●							
8		●		●		●							
10		●	●	●		●							
12		●		●		●							
14													
15			●	●		●							
16													
18				●		●							
22					●	●		●	●				
25													
28					●	●		●	●				
35								●	●				
40													
42								●	●				
54								●	●	●			
64										●			
66,7								●					
70													
76,1									●	●			
80													
88,9										●			
108									●		●		
133									●				●
159										●			●
219													●
267													●

● indicates the European recommended dimensions

## Copper Tubes For Plumbing, Drainage, Waste And Vent

### SPECIFICATIONS

Phosphorus Deoxidised, copper tubes alloy C12200

K, L, M according to ASTM B-88

Temper: Hard in straight lengths, up to 20FT

Soft in pancake, coils up to 100FT, DWV according to B-306

	Standard Size	Outside Diameter	Wall Thickness	Max. pressure Permitted	Theoretical Weight	
	inch	inch (mm)	inch (mm)	Lbs/Sq. Inch	Lb/Ft	(kg/m)
<b>K</b>	1/4	0.375 (9.52)	0.035 (0.89)	1,210	0.145	(0.215)
	3/8	0.500 (12.70)	0.049 (1.24)	1,266	0.269	(0.398)
	1/2	0.625 (15.88)	0.049 (1.24)	955	0.344	(0.508)
	5/8	0.750 (19.05)	0.049 (1.24)	824	0.418	(0.618)
	3/4	0.875 (22.22)	0.065 (1.65)	938	0.641	(0.951)
	1	1.125 (28.58)	0.065 (1.65)	725	0.839	(1.244)
	1-1/4	1.375 (34.93)	0.065 (1.65)	583	1.040	(1.538)
	1-1/2	1.625 (41.28)	0.072 (1.83)	540	1.360	(2.021)
	2	2.125 (53.98)	0.083 (2.11)	483	2.060	(3.064)
	2-1/2	2.625 (66.68)	0.095 (2.41)	441	2.930	(4.337)
	3	3.125 (79.38)	0.109 (2.77)	427	4.000	(5.941)
	3-1/2	3.625 (92.08)	0.120 (3.05)	407	5.120	(7.603)
	4	4.125 (105.0)	0.134 (3.40)	399	6.510	(9.651)
<b>L</b>	1/4	0.375 (9.52)	0.030 (0.76)	1,010	0.126	(0.187)
	3/8	0.500 (12.70)	0.035 (0.89)	882	0.198	(0.294)
	1/2	0.625 (15.88)	0.040 (1.02)	810	0.285	(0.424)
	5/8	0.750 (19.05)	0.042 (1.07)	701	0.362	(0.539)
	3/4	0.875 (22.22)	0.045 (1.14)	640	0.455	(0.673)
	1	1.125 (28.58)	0.050 (1.27)	555	0.655	(0.971)
	1-1/4	1.375 (34.93)	0.055 (1.40)	498	0.884	(1.314)
	1-1/2	1.625 (41.28)	0.060 (1.52)	455	1.140	(1.692)
	2	2.125 (53.98)	0.070 (1.78)	398	1.750	(2.602)
	2-1/2	2.625 (66.68)	0.080 (2.03)	370	2.480	(3.675)
	3	3.125 (79.38)	0.090 (2.29)	355	3.330	(4.943)
	3-1/2	3.625 (92.08)	0.100 (2.54)	337	4.290	(6.368)
	4	4.125 (105)	0.110 (2.79)	326	5.380	(7.967)
<b>M</b>	3/8	0.500 (12.70)	0.025 (0.64)	626	0.145	(0.216)
	1/2	0.625 (15.88)	0.028 (0.71)	555	0.204	(0.302)
	3/4	0.875 (22.22)	0.032 (0.81)	441	0.328	(0.486)
	1	1.125 (28.58)	0.035 (0.89)	384	0.465	(0.690)
	1-1/4	1.375 (34.93)	0.042 (1.07)	370	0.682	(1.014)
	1-1/2	1.625 (41.28)	0.049 (1.24)	370	0.940	(1.390)
	2	2.125 (53.98)	0.058 (1.47)	327	1.460	(2.161)
	2-1/2	2.625 (66.68)	0.065 (1.65)	299	2.030	(3.004)
	3	3.125 (79.38)	0.072 (1.83)	284	2.680	(3.974)
	3-1/2	3.625 (92.08)	0.083 (2.11)	279	3.580	(5.315)
	4	4.125 (105)	0.095 (2.41)		4.660	(6.908)

## Copper Plumbing Tube

	Standard Size inch	Outside Diameter inch (mm)	Wall Thickness inch (mm)	Max. pressure Permitted Lbs/Sq. Inch	Theoretical Weight	
					lb/ft	(kg/m)
<b>DWV</b>	1-1/4	1.375 (34.93)	0.040 (1.02)	-	0.650	(0.968)
	1-1/2	1.625 (41.28)	0.042 (1.07)	-	0.809	(1.205)
	2	2.125 (53.98)	0.042 (1.07)	-	1.070	(1.585)
	3	3.125 (79.38)	0.045 (1.14)	-	1.690	(2.497)
	4	4.125 (105.0)	0.058 (1.47)	-	2.870	(4.270)

## Copper Tubes On Level Wound Coils

LWC

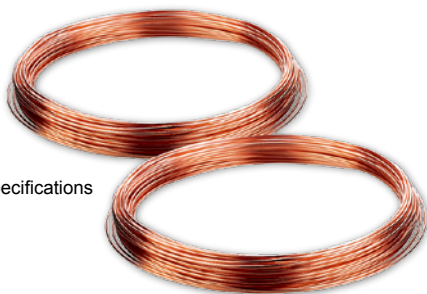
Average O.D	Wall Thickness										
	0.30	0.35	0.41	0.5	0.6	0.7	0.75	0.8	0.9	1.0	1.2
3/16"	●	●	●	●	●	●	●	●	●	●	-
1/4"	●	●	●	●	●	●	●	●	●	●	●
5/16"	-	●	●	●	●	●	●	●	●	●	●
3/8"	-	●	●	●	●	●	●	●	●	●	●
1/2"	-	-	●	●	●	●	●	●	●	●	●
5/8"	-	-	-	-	●	●	●	●	●	●	●
3/4"	-	-	-	-	●	●	●	●	●	●	●

Note: Other sizes can be made as per customer's request according to mutual agreement.



## Air Conditioning And Refrigeration, Capillary Tubes As Per Astm B360

Material            Cu Alloy 12200  
 Packaging        Straight length in wooden boxes,  
                       Coils in carton boxes  
 Specification    According to individual customer specifications



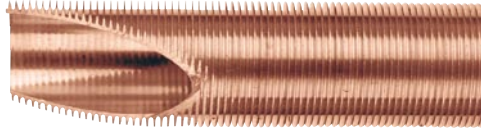
Outside Diameter inch (mm)	Inside Diameter inch (mm)	Mean Wall Thickness inch (mm)	Weight Lb/ft (Kg/m)
0.072 (1.830)	0.026 (0.660)	0.023 (0.584)	0.01373 (0.0204)
0.072 (1.830)	0.028 (0.711)	0.022 (0.558)	0.01340 (0.0199)
0.081 (2.060)	0.031 (0.787)	0.025 (0.635)	0.01705 (0.0254)
0.081 (2.060)	0.033 (0.838)	0.024 (0.606)	0.01666 (0.0248)
0.087 (2.210)	0.036 (0.914)	0.0255 (0.648)	0.01910 (0.0284)
0.087 (2.210)	0.039 (0.991)	0.024 (0.606)	0.01842 (0.0239)
0.093 (2.360)	0.042 (1.070)	0.0255 (0.648)	0.02096 (0.0312)
0.097 (2.470)	0.046 (1.170)	0.025 (0.648)	0.02221 (0.0331)
0.099 (2.510)	0.049 (1.240)	0.025 (0.635)	0.02253 (0.0335)
0.106 (2.690)	0.054 (1.370)	0.026 (0.660)	0.02533 (0.0377)
0.112 (2.840)	0.059 (1.500)	0.0265 (0.673)	0.02760 (0.0411)
0.125 (3.180)	0.064 (1.630)	0.0305 (0.775)	0.03511 (0.0522)
0.125 (3.180)	0.070 (1.780)	0.0275 (0.698)	0.03266 (0.0486)
0.125 (3.180)	0.075 (1.910)	0.025 (0.635)	0.03054 (0.0454)
0.145 (3.680)	0.080 (2.030)	0.0325 (0.826)	0.04453 (0.0663)
0.145 (3.680)	0.085 (2.160)	0.030 (0.762)	0.04202 (0.0625)
0.145 (3.680)	0.090 (2.290)	0.0275 (0.698)	0.03936 (0.0586)
0.160 (4.060)	0.100 (2.540)	0.030 (0.762)	0.04750 (0.0707)
0.160 (4.060)	0.110 (2.790)	0.025 (0.635)	0.04111 (0.0611)
0.188 (4.780)	0.120 (3.030)	0.034 (0.864)	0.06377 (0.0949)
0.188 (4.780)	0.130 (3.300)	0.029 (0.737)	0.05616 (0.0836)
0.200 (5.080)	0.145 (3.680)	0.0275 (0.698)	0.05779 (0.0860)
0.220 (5.590)	0.160 (4.060)	0.030 (0.762)	0.06943 (0.103)
0.240 (6.100)	0.175 (4.450)	0.0325 (0.826)	0.08107 (0.121)



## High Fin Tube

### Specification:

This tube is an integral extended surface tube designed primarily for applications which require high outside-to-inside surface area ratios, such as direct fired water heaters, boilers, and applications for heating or cooling gases.



Packed in wooden boxes.

Nominal Inside Diameter inch (mm)	Actual Inside Diameter inch (mm)	Minimum Wall Under Fin inch (mm)	Maximum Fin Diameter inch (mm)	Minimum Fin Height inch (mm)	Weight Per Unit Length (kg/m)
<b>Dimensional Date -- 5 Fins Per Inch</b>					
1/2 (12.70)	0.506 (12.85)	0.061 (1.549)	1.438 (36.53)	0.350 (8.890)	1.469
7/8 (22.22)	0.881 (22.38)	0.061 (1.549)	1.854 (47.09)	0.375 (9.525)	2.568
1 (25.40)	1.007 (25.58)	0.061 (1.549)	1.938 (49.23)	0.350 (8.890)	2.928
<b>Dimensional Date -- 7 Fins Per Inch</b>					
5/8 (15.88)	0.631 (16.03)	0.039 (0.991)	1.562 (39.67)	0.375 (9.525)	1.800
3/4 (19.05)	0.756 (19.20)	0.055 (1.397)	1.688 (42.88)	0.350 (8.890)	2.126
7/8 (22.22)	0.881 (22.38)	0.046 (1.168)	1.859 (47.22)	0.375 (9.525)	1.934
<b>Dimensional Date -- 8 Fins Per Inch</b>					
5/8 (15.88)	0.631 (16.03)	0.061 (1.549)	1.250 (31.75)	0.210 (5.334)	1.988
7/8 (22.22)	0.881 (22.38)	0.046 (1.168)	1.857 (47.17)	0.375 (9.525)	2.643
7/8 (22.22)	0.881 (22.38)	0.061 (1.549)	1.857 (47.17)	0.375 (9.525)	3.348
<b>Dimensional Date -- 9 Fins Per Inch</b>					
1/2 (12.70)	0.506 (12.85)	0.061 (1.549)	1.438 (36.53)	0.350 (8.890)	1.875
5/8 (15.88)	0.631 (16.03)	0.039 (0.991)	1.562 (39.67)	0.375 (9.525)	1.943
5/8 (15.88)	0.631 (16.03)	0.061 (1.549)	1.562 (39.67)	0.350 (8.890)	2.202

## Boiling Tube



### Specification:

This tube has unique fin form. Fins are inter-connected via specially designed duct under the fin. Such design is helpful for continuous overflow of bubbles when the refrigerant boils. The fin has different form when machine unit has different heat flux.

It is suitable for water chilling machine unit with full fluid.

Packed in wooden boxes.

Standard Sizes		Plain End Dimensions		Finned Section Dimensions			
Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Fin Height inch (mm)	Min wall Under Fins inch (mm)	Number of fin	Inner Fin Height (mm)
<b>Dimensional Date -- 19 Fins Per Inch</b>							
5/8 (15.88)	0.035 (0.889)	0.623 (15.82)	0.052 (1.32)	0.063 (1.588)	0.031 (0.787)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.743 (18.87)	0.049 (1.24)	0.063 (1.588)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.998 (25.35)	0.065(1.65)	0.063 (1.588)	0.044 (1.118)	38	0.40
<b>Dimensional Date -- 26 Fins Per Inch</b>							
5/8 (15.88)	0.035 (0.889)	0.623 (15.82)	0.052 (1.32)	0.063 (1.588)	0.031 (0.787)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.743 (18.87)	0.049 (1.24)	0.063 (1.588)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.998 (25.35)	0.065(1.65)	0.063 (1.588)	0.044 (1.118)	38	0.40
<b>Dimensional Date -- 35 Fins Per Inch</b>							
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.038 (0.953)	0.023 (0.584)	36	0.40
3/4 (19.05)	0.035 (0.889)	0.748 (19.00)	0.050 (1.27)	0.038 (0.953)	0.030 (0.762)	36	0.40
3/4 (19.05)	0.042 (1.067)	0.748 (19.00)	0.058 (1.47)	0.038 (0.953)	0.037 (0.940)	36	0.40
<b>Dimensional Date -- 42Fins Per Inch</b>							
5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.047 (1.19)	0.056 (1.422)	0.022 (0.559)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.034 (0.864)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.998 (25.35)	0.058 (1.47)	0.034 (0.864)	0.037 (0.935)	38	0.40
<b>Dimensional Date -- 50Fins Per Inch</b>							
5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.047 (1.19)	0.056 (1.422)	0.022 (0.559)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.034 (0.864)	0.025 (0.635)	36	0.40
1 (25.4)	0.042 (1.254)	0.998 (25.35)	0.058 (1.47)	0.034 (0.864)	0.037 (0.935)	38	0.40

## Straight Inner Grooved Copper Tubes



### Specification:

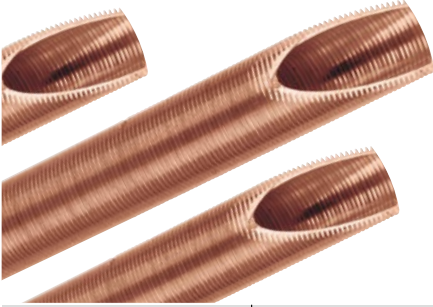
The continuous or discontinuous spiral groove on inner surface of copper tube can increase contact area, change the flow type of refrigerant in the tube. The outer surface of copper tube can also be processed with corrugate spiral groove to expand range of use. It is suitable for heat exchanger in home air conditioner or dry evaporator in central conditioner.

Packed in wooden boxes.

O.D in (mm)	BWT (mm)	Number of fins	FIN HEIGHT (mm)	Helix Angle	Weight (kg/m)
(7.0)	0.330	60	0.203	12	0.0781
5/16 (7.94)	0.305	60	0.203	18	0.0804
3/8 (9.52)	0.305	60	0.203	18	0.0967
3/8 (9.52)	0.330	60	0.203	18	0.0989
3/8 (9.52)	0.356	60	0.203	18	0.1027
3/8 (9.52)	0.381	60	0.203	18	0.1205
3/8 (9.52)	0.406	60	0.203	18	0.1176
1/2 (12.7)	0.381	60	0.254	18	0.1622
1/2 (12.7)	0.406	60	0.254	18	0.1711
1/2 (12.7)	0.432	60	0.254	18	0.1792
1/2 (12.7)	0.456	60	0.254	18	0.1887
1/2 (12.7)	0.483	60	0.254	18	0.2064
5/8 (15.88)	0.498	75	0.305	23	0.2695
5/8 (15.88)	0.510	75	0.305	23	0.2695
5/8 (15.88)	0.510	75	0.305	25	0.3049
5/8 (15.88)	0.584	75	0.305	25	0.3240
5/8 (15.88)	0.635	60	0.305	27	0.3503
5/8 (15.88)	0.715	60	0.305	27	0.3726

# Copper Fin Tube

## Low Fin Tube



### Specification:

The outer surface of copper tube has continuous spiral fin.

It is suitable for lithium bromide machine unit or heat exchanger.

Packed in wooden boxes.

Standard Sizes		Plain End Dimensions		Finned Section Dimensions			
Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Fin Height inch (mm)	Min wall Under Fins inch (mm)	Number of fin	Inner Fin Height (mm)
<b>Dimensional Date -- 19 Fins Per Inch</b>							
5/8 (15.88)	0.035 (0.889)	0.623 (15.82)	0.052 (1.32)	0.063 (1.588)	0.031 (0.787)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.743 (18.87)	0.049 (1.24)	0.063 (1.588)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.998 (25.35)	0.065(1.65)	0.063 (1.588)	0.044 (1.118)	38	0.40
<b>Dimensional Date -- 26 Fins Per Inch</b>							
5/8 (15.88)	0.035 (0.889)	0.623 (15.82)	0.052 (1.32)	0.063 (1.588)	0.031 (0.787)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.743 (18.87)	0.049 (1.24)	0.063 (1.588)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.998 (25.35)	0.065(1.65)	0.063 (1.588)	0.044 (1.118)	38	0.40
<b>Dimensional Date -- 35 Fins Per Inch</b>							
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.038 (0.953)	0.023 (0.584)	36	0.40
3/4 (19.05)	0.035 (0.889)	0.748 (19.00)	0.050 (1.27)	0.038 (0.953)	0.030 (0.762)	36	0.40
3/4 (19.05)	0.042 (1.067)	0.748 (19.00)	0.058 (1.47)	0.038 (0.953)	0.037 (0.940)	36	0.40
<b>Dimensional Date -- 42Fins Per Inch</b>							
5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.047 (1.19)	0.056 (1.422)	0.022 (0.559)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.034 (0.864)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.998 (25.35)	0.058 (1.47)	0.034 (0.864)	0.037 (0.935)	38	0.40
<b>Dimensional Date -- 50Fins Per Inch</b>							
5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.047 (1.19)	0.056 (1.422)	0.022 (0.559)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.034 (0.864)	0.025 (0.635)	36	0.40
1 (25.4)	0.042 (1.254)	0.998 (25.35)	0.058 (1.47)	0.034 (0.864)	0.037 (0.935)	38	0.40



## Cooling Tube

### Specification:

The sharp boss in radial and axial directions on fin end of the tube can separate refrigerating drops and reduce their surface tension to make them drop faster. It has strong condensation effect. It is suitable for shell & tube heat exchanger.

Packed in wooden boxes.

Standard Sizes		Plain End Dimensions		Finned Section Dimensions			
Outside Diameter inch (mm)	Nominal Wall inch (mm)	Outside Diameter inch (mm)	Nominal Wall inch (mm)	Fin Height inch (mm)	Min wall Under Fins inch (mm)	Number of fin	Inner Fin Height (mm)
<b>Dimensional Date -- 19 Fins Per Inch</b>							
5/8 (15.88)	0.035 (0.889)	0.052 (15.82)	0.052 (1.32)	0.063 (1.588)	0.031 (0.787)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.049 (18.87)	0.049 (1.24)	0.063 (1.588)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.065 (25.35)	0.065 (1.65)	0.063 (1.588)	0.044 (1.118)	38	
<b>Dimensional Date -- 26 Fins Per Inch</b>							
5/8 (15.88)	0.035 (0.889)	0.052 (15.82)	0.052 (1.32)	0.063 (1.588)	0.031 (0.787)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.049 (18.87)	0.049 (1.24)	0.063 (1.588)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.065 (25.35)	0.065 (1.65)	0.063 (1.588)	0.044 (1.118)	38	
<b>Dimensional Date -- 35 Fins Per Inch</b>							
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.038 (0.953)	0.023 (0.584)	36	0.40
3/4 (19.05)	0.035 (0.889)	0.748 (19.00)	0.050 (1.27)	0.038 (0.953)	0.030 (0.762)	36	0.40
3/4 (19.05)	0.042 (1.067)	0.748 (19.00)	0.058 (1.47)	0.038 (0.953)	0.037 (0.940)	36	
<b>Dimensional Date -- 42 Fins Per Inch</b>							
5/8 (15.88)	0.025 (0.635)	0.623 (15.82)	0.049 (1.19)	0.056 (1.422)	0.022 (0.559)	34	0.40
3/4 (19.05)	0.028 (0.711)	0.748 (19.00)	0.043 (1.09)	0.034 (0.864)	0.025 (0.635)	36	0.40
1 (25.4)	0.049 (1.254)	0.998 (25.35)	0.058 (1.47)	0.034 (0.864)	0.037 (0.935)	38	0.40

## Spiral Tube



### Specification:

The copper tube is twisted to form with spiral groove on outer surface. Since there is cavity in the cross-section of spiral groove, such tube can be twisted randomly and be installed in narrow space.

It is suitable for double pipes heat exchanger in machine unit.

Packed in wooden boxes.

Outside Diameter Inch (mm)	Tolerances Of Wall Thickness(± mm)								
Average O.D	0.35	0.41	0.5	0.6	0.7	0.75	0.8	1.0	1.2
1/2 (12.7)		0.05	0.05	0.05	0.06	0.06	0.06	0.08	0.08
5/8 (15.88)				0.06	0.06	0.06	0.08	0.08	0.10
18				0.06	0.06	0.08	0.08	0.10	0.10
3/4 (19.05)					0.07	0.08	0.08	0.10	0.12