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PRODUCTS INTRODUCTION



[Http://www.hailiang.com](http://www.hailiang.com)

HAILIANG

HAILIANG GROUP IN BRIEF

157th Of China's Top 500 Enterprises



COMPANY PROFILE

157th of China's Top 500 Enterprises

17th of China's Top 500 Private Enterprises

No.72 the top 500 chinese manufacturing enterprise

No.92 china's 100 largest transnational corporation

Hailiang is one of the world's largest producers for copper and copper alloy products including tubing, rods fittings etc. In the past 20 years, the group has committed to Efficiency, Excellence, Quality and Service as four key elements. Being guided by Technology Oriented, Brand Building Strategy, International Business Focusing, and harmonious corporation culture, Hailiang has achieved continuous high speed growth. Presently, Hailiang has more than 9000 staff, and covers 48 subordinate enterprises. With copper manufacturing as the core business, Hailiang has developed into a group company covering real estate, education, nonferrous metal trade, machinery manufacturing, plumbing plastic pipe manufacturing and hotel business.

In 2012, Hailiang's comprehensive competence has ascended to NO. 157th among the top 500 enterprises in China. Hailiang will follow its direction of make super fine, make strong, make larger endeavoring to be the most competitive copper-processing multinational enterprises in the world.



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HAILIANG

Having a capacity of water from hundreds of rivers
Illuminating the five continents



Build Century HAILIANG
Create World-Class Brand



COPPER TUBE SERIES

• COPPER TUBES

Main Purposes:

Water, Gas, Sanitation, Air Conditioning, Refrigeration, Fire Protection and General Purposes.



◆ Standard and Copper Alloy No.

Standard		Alloy No.	Temper				Chemical Composition Cu%		
JIS H3300		C1220	H		1/2H	OL	O	Minimum 99.90	
JISH3300									
BS2871		C106		H		1/2H	/		O
EN12735-2		CU-DHP		Y0 80		/	Y0 40		Y0 35
EN12735-1		or CW024A		R360	R290	R250	/		R220
EN1057				R360	R290	R250	/		R220
EN12449		CU-DHP		R360	R290	R250	/		R220/R200
		or CW024A		H110	H095	H070	/		H040
DIN		SF-Cu		F36		F25	F22		O
ASTM	B68	C12200		/		/	O 50		O 60
	B88			H58					
	B75			H80和H58		H55	O 50		O 60
	B280			H58		/			O 60
	B743-92a			H58		/	O 50		O 60

COPPER TUBE SERIES

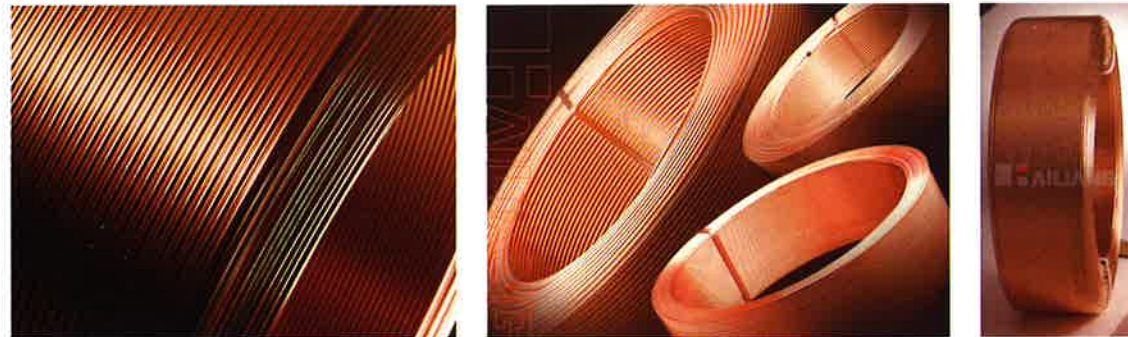
• STRAIGHT TUBES SERIES



◆ Specifications

Thickness O.D.	0.013 " to 0.023 "	0.023 " to 0.031 "	0.031 " to 0.039 "	0.039 " to 0.047 "	0.047 " to 0.059 "	0.059 " to 0.078 "	0.078 " to 0.12 "	0.12 " to 0.16 "	0.16 " to 0.22 "	0.22 " to 0.27 "	0.27 " to 0.37 "
1/4 " to 1/2 "	O	O	O	O	O						
1/2 " to 3/4 "	O	O	O	O	O	O					
3/4 " to 1 "	O	O	O	O	O	O	O	O			
1 " to 1-3/8 "		O	O	O	O	O	O	O	O		
1-3/8 " to 1-1/2 "			O	O	O	O	O	O	O		
1-1/2 " to 1-19/20 "			O	O	O	O	O	O	O	O	
1-19/20 " to 2-1/2 "			O	O	O	O	O	O	O	O	
2-1/2 " to 2-3/4 "				O	O	O	O	O	O	O	O
2-3/4 " to 3-3/8 "				O	O	O	O	O	O	O	O
3-3/8 " to 4 "					O	O	O	O	O	O	O
4 " to 5-3/8 "						O	O	O	O	O	O
5-3/8 " to 6-1/4 "							O	O	O	O	O
6-1/4 " to 8-5/8 "								O	O		

• LWC FOR ACR SERIES (PLAIN)



◆ Specifications(FOR REFERENCE ONLY)

O.D.		WALL THICKNESS		COIL WEIGHT	
mm	inch	mm	inch	kg	lbs
3.8	5/32	0.28-0.60	0.011-0.024	90-130 130-180 >180(as per customer's requirements)	200-300 300-400 >400(as per customer's requirements)
4.76	3/16	0.28-0.81	0.011-0.032		
6.35	1/4	0.28-1.07	0.011-0.042		
7.94	5/16	0.28-1.5	0.011-0.059		
9.52	3/8	0.28-1.5	0.011-0.059		
12.7	1/2	0.35-2.00	0.014-0.079		
15.88	5/8	0.46-2.00	0.018-0.079		
19.05	3/4	0.71-2.00	0.028-0.079		
22.22	7/8	0.89-2.00	0.035-0.079		

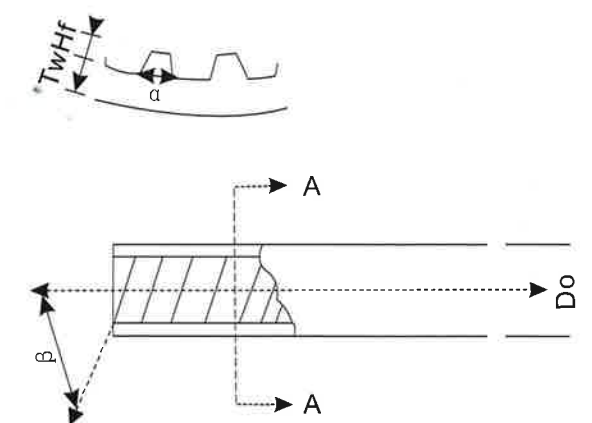
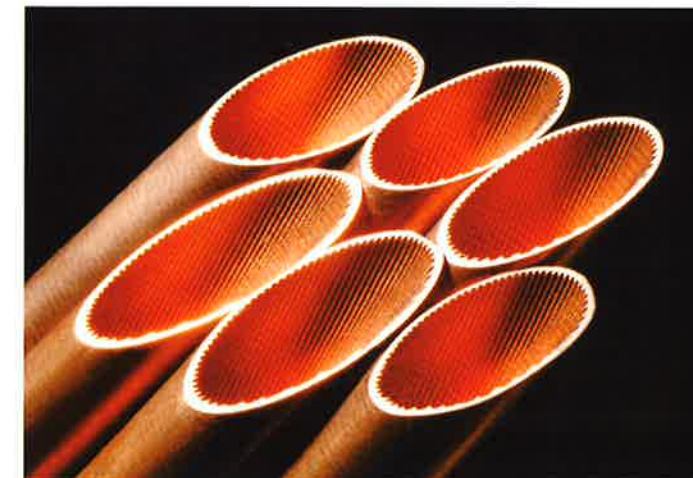
• PANCAKE COILS SERIES



◆ Specifications

O.D(inch)	Thickness(inch)	Length(ft)
1/8 " to 1 1/8 "	0.014 " to 0.059 "	≤100

• LWC FOR ACR SERIES (INNER GROOVED)



◆ Specifications(FOR REFERENCE ONLY)

Specifications	Unit weight	O.D	I.D	Bottom Wall Thickness Tw	Fin Groove Depth Hf	Total wall Thickness	Apex Angle	Helix Angle	Number of Tooth
Φ 5.00×0.20+0.15-18°	33	5.00	4.30	0.20	0.15	0.35	40	18	40
Φ 7.00×0.25+0.10-15°	52	7.00	6.30	0.25	0.10	0.35	40	15	65
Φ 7.00×0.25+0.18-18°	57	7.00	6.14	0.25	0.18	0.43	40	18	50
Φ 7.00×0.25+0.22-16°	58	7.00	6.06	0.25	0.22	0.47	22	16	54
Φ 7.00×0.27+0.15-18°	60	7.00	6.16	0.27	0.15	0.42	53	18	60
Φ 7.94×0.25+0.18-18°	65	7.94	7.08	0.25	0.18	0.43	40	18	50
Φ 7.94×0.25+0.20-18°	66	7.94	7.04	0.25	0.20	0.45	40	18	50
Φ 7.94×0.26+0.17-18°	66	7.94	7.08	0.26	0.17	0.43	40	18	50
Φ 7.94×0.28+0.20-18°	72	7.94	6.98	0.28	0.20	0.48	40	18	50
Φ 7.94×0.30+0.20-18°	76	7.94	6.94	0.30	0.20	0.50	40	18	50
Φ 9.52×0.27+0.16-18°	82	9.52	8.66	0.27	0.16	0.43	30	18	70
Φ 9.52×0.28+0.12-15°	80	9.52	8.72	0.28	0.12	0.40	53	15	65
Φ 9.52×0.28+0.15-18°	83	9.52	8.66	0.28	0.15	0.43	53	18	60
Φ 9.52×0.28+0.15-25°	88	9.52	8.66	0.28	0.15	0.43	90	25	65
Φ 9.52×0.28+0.20-18°	85	9.52	8.56	0.28	0.20	0.48	25	18	55
Φ 9.52×0.28+0.20-18°	88	9.52	8.56	0.28	0.20	0.48	40	18	60
Φ 9.52×0.30+0.20-18°	90	9.52	8.52	0.30	0.20	0.50	30	18	60
Φ 9.52×0.30+0.20-18°	94	9.52	8.52	0.30	0.20	0.50	53	18	60
Φ 9.52×0.34+0.15-25°	104	9.52	8.54	0.34	0.15	0.49	90	25	65
Φ 9.52×0.40+0.25-18°	123	9.52	8.22	0.40	0.25	0.65	40	18	60
Φ 12.00×0.36+0.25-18°	140	12.00	10.78	0.36	0.25	0.61	40	18	70
Φ 12.70×0.35+0.25-18°	155	12.70	11.50	0.35	0.25	0.60	53	18	70
Φ 12.70×0.40+0.25-18°	170	12.70	11.40	0.40	0.25	0.65	53	18	70
Φ 12.70×0.50+0.25-18°	201	12.70	11.20	0.50	0.25	0.75	53	18	75
Φ 12.75×0.36+0.21/0.25-20°	150	12.75	11.53	0.36	0.25	0.61	48	20	70

• PACKING WAYS(LWC)

	Packing ways	Wooden pallets	plates		Way of placing strings		Winding way		Hailiang	Neutral
			Cardboard Reels	Reels (I.D.Payout)	Draw from I.D.	Draw from O.D.	Clockwise	Anti-Clockwise		
Hailiang	General packing	☐	☐	☐		☐	☐	☐	☐	
	Simple Packing	☐						☐	☐	
	Draw from I.D.Packing	☐		☐	☐		☐	☐	☐	
	General double pallets packing	☐	☐	☐			☐	☐	☐	
Neutral	General Packing	☐	☐	☐		☐	☐	☐		☐
	Simple Packing	☐		☐			☐	☐		☐
	Draw from I.D.Packing	☐			☐			☐		☐
	General double pallets packing	☐	☐	☐			☐	☐		☐



General Packing



Our production lines

• BRASS STRAIGHT TUBE



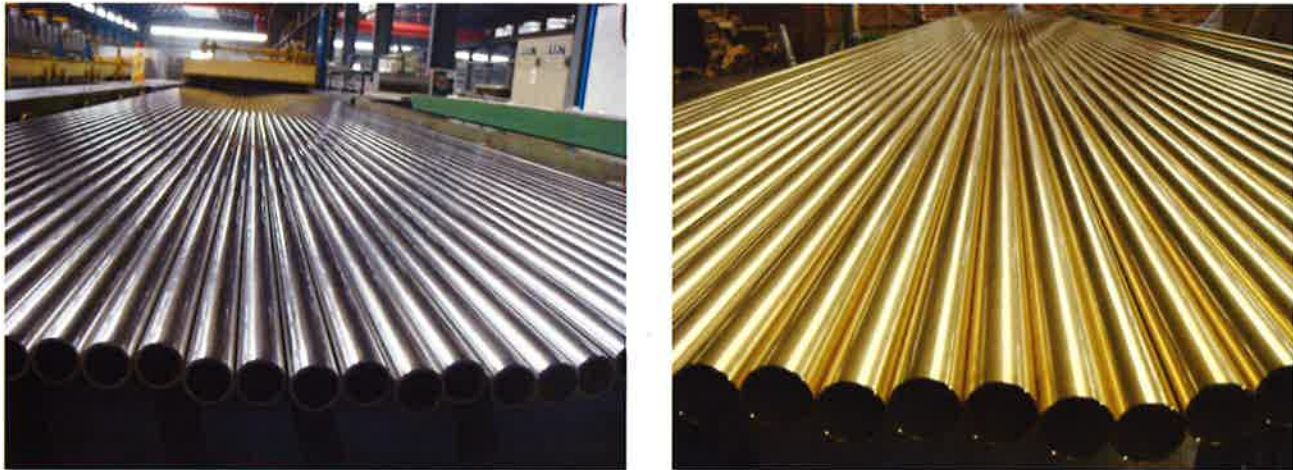
Main Purposes:

Buildings, Sanitation,
Marine, Desalt Sea Water
Seawater Desalination
Projects, etc.

◆ Main Standard and Copper Alloy No .

Standard	Copper Alloy No.	Temper
ASTMB111	C44300	O 61
	C68700	O 61
	C70600	O 61/H55
	C71500	O 61
	C71640	O 61/Hr50
JISH3300	C4430	O
	C6870	O
	C7060	O
	C7150	O
	C7164	O
BS EN12451 (BS2871)	CuZn28Sn1As(CZ111)	R320/H060/R360/H080
	CuZn20A12As(CZ110)	R340/H070/R390/H085
	CuNi10Fe1Mn(CN102)	R290/H075/R310/H105/R480/H150
	CuNi30Fe1Mn(CN107)	R370/H090/R480/H120
	CuNi30Fe2Mn2(CN102)	R420/H090
ASTMB135	C33000	O 1/2H H
	C28000	
	C27000/C27200/C27400	
	C26000/C26200/C26800	
	C23000	

• HIGH ACCURACY COPPER ALLOY TUBE



- Main Products:
- Admiralty Brass Tube C44300
 - Al-Brass Tube C68700
 - CuNi Tube C70600
 - CuNi Tube C71500/C71640

Total Capacity:50,000 Ton/Year

Specification scope of high accuracy copper alloy tube												
O.D.(mm)	Thickness (unit:mm)											Length(mm)
	0.4	0.4~1.0	1.0~2.0	2.0~3.0	3.0~4.0	4.0~5.0	5.0~6.0	6.0~7.0	7.0~8.0	8.0~10.0	10.0~12.0	
4.74~10	O	O										≤25000
>10~20	O	O	O	O	O							≤25000
>20~50		O	O	O	O	O	O	O				≤25000
>50~100			O	O	O	O	O	O	O	O	O	≤15000
>100~200				O	O	O	O	O	O	O	O	≤12000
>200~300					O	O	O	O	O	O	O	≤6000
>300~419					O	O	O	O	O	O	O	≤6000

Chemical composition of high accuracy copper alloy tube

Standard	Name	Copper Alloy No	Chemical Composition(%)													
			Cu	Sn	Pb	Fe	Al	Zn	Mn	Ni	As	C	Co	P	S	Others
	Admiralty Brass Tube	C44300	70.0~73.0	0.9~1.2	≤0.07	≤0.06	—	Remainder	—	—	0.02~0.06			—		—
ASTM B111	Al-Brass Tube	C68700	76.0~79.0	—	≤0.07	≤0.06	1.8~2.5	Remainder	—	—	0.02~0.06			—		—
	90-10 Cuni Tube	C70600	Remainder	—	≤0.05	1.0~1.8	—	≤1.0	≤1.0	9.0~11.0			—	—		—
	70-30 Cuni Tube	C71500	Remainder	—	≤0.05	0.04~1.0	—	≤1.0	≤1.0	29.0~33.0			—	—		—
	66/30/2/2 Cuni Tube	C71640	Remainder	—	≤0.05	1.7~2.3	—	≤1.0	1.5~2.5	29.0~32.0		≤0.06	—	—	≤0.03	—
JIS H3300	Condenser Brass Tube	C4430	70.0~73.0	0.9~1.2	≤0.05	≤0.05	—	Remainder	—	—	0.02~0.06			—		—
		C6870	76.0~79.0	—	≤0.05	≤0.05	1.8~2.5	Remainder	—	—	0.02~0.06			—		—
	Condenser CuNi Tube	C7060	Remainder	—	≤0.05	1.0~1.8	—	≤0.50	0.20~1.0	9.0~11.0	—		—	—		Cu+Fe+Mn+Ni≥99.5
		C7150	Remainder	—	≤0.05	0.04~1.0	—	≤0.50	0.20~1.0	29.0~33.0	—		—	—		Cu+Fe+Mn+Ni≥99.5
		C7164	Remainder	—	≤0.05	1.7~2.3	—	≤0.50	1.5~2.5	29.0~32.0	—		—	—		Cu+Fe+Mn+Ni≥99.5
BS EN12451 (B2871)	Condenser Brass Tube	CuZn28Sn1As (CZ111)	70.0~72.5	0.9~1.3	≤0.05	≤0.07	—	Remainder	≤0.1	≤0.1	0.20~0.06			≤0.1		≤0.3
		CuZn20A12As (Cz110)	76~79.0	—	≤0.05	≤0.07	1.8~2.3	Remainder	≤0.1	≤0.1	0.02~0.06			≤0.1		≤0.3
	Condenser CuNi Tube	CuNi10Fe1Mn (CN102)	Remainder	≤0.03	≤0.02	1.0~2.0	—	≤0.05	0.50~1.0	9.0~11.0	—	≤0.05	≤0.1	≤0.02	≤0.05	≤0.2
		CuNi30Fe1Mn (CN107)	Remainder	≤0.05	≤0.02	0.4~1.0	—	≤0.05	0.50~1.5	30.0~32.0	—	≤0.05	≤0.1	≤0.02	≤0.05	≤0.2
		CuNi30Fe1Mn (Cn108)	Remainder	≤0.05	≤0.02	1.5~2.5	—	≤0.05	1.5~2.5	29.0~32.0	—	≤0.05	≤0.1	≤0.02	≤0.05	≤0.2

• BRASS STRAIGHT TUBE



Thickness O.D.	0.019 " to 0.023 "	0.023 " to 0.031 "	0.031 " to 0.039 "	0.039 " to 0.047 "	0.047 " to 0.059 "	0.059 " to 0.078 "	0.078 " to 0.12 "	0.12 " to 0.16 "
1/4 " to 1/2 "	O	O	O	O	O			
1/2 " to 3/4 "	O	O	O	O	O	O		
3/4 " to 1 "		O	O	O	O	O	O	
1 " to 1-3/8 "			O	O	O	O	O	O
1-3/8 " to 2 "				O	O	O	O	O
2 " to 2-3/4 "				O	O	O	O	

• PACK ING WAYS



• COPPER FITTINGS

Main Purposes:
Air Conditioning,
Water,gas, etc.



SPECIFICATION	NOMAL SIZE(Inch)	STANDDARO
45° Elbow C×C	1/8 to 6	ASME B 16.22
90° Elbow C×C	1/8 to 2×11/2	
90° Long Elbow C×C	1/8 to 4	
Coupling w/stop C×C Dimple	1/8 to 8	
Coupling Less/stop C×C Dimple	1/8 to 5	
Flush Bushings FTG×C	1/4×1/8 to 2×11/2	
Coupling W/stop rolled	1/8 to 8	
Reducing coupling w/stop C×C	5/8×1/4 to 6×3	
Fitting Reducer FTG×C	5/8×1/4 to 4×11/4	
TUBE STRAP	1/8 to 2	
Fitting End Plugs	3/8 to 11/4	
45° Street Elbow FTG×C	1/8 to 4	
90° Street Elbow FTG×C	1/4 to 4	
90° Street Long Elbow FTG×C	1/8 to 3	
TEE C×C×C	1/8 to 8	
P-TRAP	1/2 to 2	
U-BEND	1 to 2	
CAP	1/8 to 6	
MALE ADAPTER C×M	1/4×1/8 to 2×2	
REDUCING TEE	1/4×1/8 to 8×8×4	
FEMALE ADAPTER C×F	3/8×3/8 to 2×2	
UNION BTASS	3/8 to 1	EN1254-1
FEMALE ADAPTER FTG×F	1/4×1/4 To 2-1/2×2-3/8	
MALE ADAPTER FTG×M	1/4×1/4 to 2-1/2×2-3/8	
45° Equal Elbow C×C E10ECC	8 to 308	
90° Equal Elbow C×C HLE11ECC	6 to 308	
45° Street Elbow FTG×C E13EFC	8 to 159	
90° Street Elbow FTG×C E14EFC	6 to 219	
90° Long Radius Street Elbow C×FTG E15ELFC	12 to 108	
90° Long Radius Street Elbow C×C E12ELLC	12 to 108	
Cross C×C×C×C E60CCCC	15 22 28 35	
Equal Tee C×C×C E30TCC	6 to 308	
Reducing Tee C×C×C E31TRC	42×42×42 to 219×219×159	
Stop End E40CAP	8 to 159	
Reducing Coupler C×C E21RRC	15×10 to 219×108	
Fitting Reducer C×FTG E22RCF	16×12 to 219×159	
Equal Coupler C×C E20CC	C6 to 308	

FITTING SERIES

• BRASS FITTINGS



◆ Fitting Series

Brass capillary fitting	
Male Coupling	Female Coupling
15mm×1/2" M 22mm×3/4" M	15mm×1/2" F 22mm×3/4" F
28mm×1" M 15mm×3/4" M	28mm×1" F 15mm×3/4" F
22mm×1" M	
Male Elbow	Female Elbow
15mm×1/2" M 22mm×3/4" M	15mm×1/2" F 22mm×3/4" F
28mm×1" M 15mm×3/4" M	28mm×1" F 15mm×3/4" F
Female Tee	Wall Plated Elbow
15mm×15×1/2" F 22mm×22×3/4" F	15mm×1/2" F
28mm×28×1" F	22mm×3/4" F

◆ Brass Comeression Fittings

Male Coupling And Female Coupling	
15mm×1/2" M/F	22mm×3/4" M/F
28mm×1" M/F	15mm×3/4" M/F
Coupling	Male Elbow
15mm×15mm 22mm×22mm	15mm×1/2" M 22mm×3/4" M
28mm×28mm 22mm×15mm	28mm×1" M 15mm×3/4" M
28mm×22mm	
Female Elbow	Elbow
15mm×1/2" F 22mm×3/4" F	15mm×15mm 22mm×22mm
28mm×1" F 15mm×3/4" F	28mm×28mm 22mm×15mm
	28mm×22mm
Tee	Wall Plated Elbow
15mm×15mm×1/2" F	15mm×1/2" F 22mm×3/4" F
22mm×22mm×3/4" F	
22mm×22mm×1/2" F	
28mm×28mm×1" F	
15mm×15mm×15mm	
22mm×22mm×22mm	
28mm×28mm×28mm	
22mm×22mm×15mm	
22mm×15mm×22mm	

◆ Threaded Fittings

Nipple F×M	Cap	Coupling M×M
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
Coupling F×F	Coupling M×F	Elbow F×F
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
Elbow M×F	Elbow M×M	Tee F×F×F
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
Reducing Bush F×F		Reducing Adapter M×M
1/2" ×3/8" 3/4" ×1/2"		1/2" ×3/8" 3/4" ×1/2"
1" ×1/2" 1" ×3/4"		1" ×1/2"
1 1/4" ×3/4" 1 1/4" ×1/2"		1 1/4" ×3/4" 1 1/4" ×1/2"
3Piece Adapter M×F	3Pieceadapter F×F	3 Piece Adapter M×M
3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"	3/8" 1/2" 3/4" 1"
3PIECE ADAPTER M×M		NUT
3/8" 1/2" 3/4" 1"		16" 1/2" 20×3/4"
Female Adapter		
1/2" F×1/2" /16	1/2" F×3/4" /20	3/4" F×3/4" /20
Male Elbow		Female Elbow
1/2" /16×1/2" /16		1/2" F×1/2" /16 3/4" F×1/2" /16
3/4" /20×3/4" /20		1/2" F×3/4" /20 3/4" F×3/4" /20
Female Tee		
1/2" /16×1/2" F×1/2" /16 3/4" /20×1/2" F×3/4" /20		
3/4" /20×3/4" F×3/4" /20		
Male Tee		
1/2" /16×1/2" /1/2" /16		
3/4" /20×1/2" ×3/4" /20		

INSULATED COPPER TUBES PLASTIC-COATED COPPER TUBES

Main Purposes:
Air Conditioning,
Water,Gas,etc.



◆ Standard Size(inch)

Type	Size d2×t2/d1×t1	O.D.of the tube d1 d2 d3	Thickness of Insulator t1t2t3t4	Length	Material	Weight Pounds/feet
-P2320 -P2330	1/4 " ×0.032 3/8 " ×0.032	1.02 " 0.87 " 1.89 "	0.35 " 0.2 "	30ft to 100ft	0	0.233
-P2420 -P2430	1/4 " ×0.032 1/2 " ×0.032	1.30 " 0.87 " 2.17 "	0.394 " 0.2 "	30ft to 100ft	0	0.286
-P2520	1/4 " ×0.032 5/8 " ×0.039	1.42 " 0.87 " 2.29 "	0.394 " 0.2 "	30ft to 100ft	0	0.390
-P3520	3/8 " ×0.032 5/8 " ×0.039	1.42 " 1.02 " 2.44 "	0.394 " 0.2 "	30ft to 100ft	0	0.440
-P3620	3/8 " ×0.032 3/4 " ×0.039	1.54 " 1.02 " 2.56 "	0.394 " 0.2 "	30ft to 100ft	0	0.569
-P4620	1/2 " ×0.032 3/4 " ×0.039	1.54 " 1.30 " 2.84 "	0.394 " 0.2 "	30ft to 100ft	0	0.629

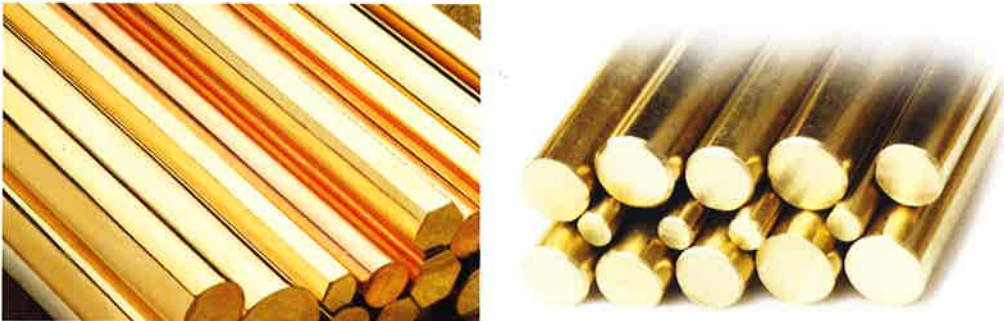
PLASTIC-COATED COPPER TUBES MADE ACCORDING TO EN1057 OR ASTM B88

DN (mm)	O.D. (mm)	Thickness (mm)	Gear-shaped Loop (mm)	Parallerl Loop (mm)	Foam (mm)	Maximum Deviation (mm)	Length	Maximum Deviation (mm)
15	15	0.7	18.6	17	21.5	±0.20	2.9 to 5.8	0 to +10
20	22	0.9	25.6	24	28.5			
25	28		31.6	30				
32	35	1.2		37.6		±0.30		
40	42			44.6				
50	54			56.8		±0.40		
65	67			69.8				
80	76	1.5		78.8		±0.50		

SMALL FURBISHED
BRASS ROD SERIES

• SMALL FURBISHED BRASS RODS

Main Purposes :
Air Conditioning,Electricity,Machinery,Etc.



Designation,Chemical Composition of Small Furbished Brass Rods

Copper Alloy No .		Designation	Width or Diameter (mm)
JIS	UNS		
C2700	C27000	—	Round Rod 5 to 80
C2800	C28000	—	
—	C34000 C34500 C35000 C35300	ASTM B453	
—	C36000	ASTM B16	
C3601	C36000	—	
C3602	C36000	—	
C3603	—	—	
C3604	—	—	
C3605	—	—	
C3712 C3771	C37100 C37700	—	Square Rod Hexi Rod 12 to 40
C4622	C46200	—	
C4641	C46400	—	
—	C48500	ASTM B21	
—	C67300 C67600	ASTM B138	
C6782	—	—	
C6783	—	—	



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