



Your Single Source Solution

U.S. OPERATING COMPANY OF HAILIANG

## Copper Tube for Plumbing and Mechanical Applications

Job Name \_\_\_\_\_

Job Location \_\_\_\_\_

Engineer \_\_\_\_\_

### PRODUCT DESCRIPTION & MATERIAL

JMF Copper Tube for use in plumbing and mechanical applications & is manufactured from UNS C12200 grade of copper.

### SPECIFICATIONS

JMF Company Copper Tube (Type K, L, M) conforms to the NSF/ANSI 61 Annex G requirements and meets ASTM B88. Copper drainage tube (DWV) meets ASTM B306. Copper refrigeration coils ACR straight lengths and line sets meet the chemical, mechanical, cleanness and eddy current testing requirements of the applicable specifications of ASTM B280.

Type K			Rated Working Pressure (PSIG)			
Nominal Diameter	Weight /ft. (lbs)	Feet/ Bundle	150°F	200°F	300°F	400°F
1/4	0.145	500	913	860	842	537
3/8	0.269	500	960	904	885	565
1/2	0.344	500	758	713	698	446
5/8	0.418	200	626	589	577	368
3/4	0.641	200	724	682	668	426
1	0.839	100	557	524	513	327
1 1/4	1.04	100	452	425	416	266
1 1/2	1.36	100	420	396	387	247
2	2.06	-	370	348	341	217
2 1/2	2.93	-	338	319	312	199
3	4.00	-	328	308	302	193
3 1/2	5.12	-	311	293	286	183
4	6.51	-	306	288	282	180
5	9.67	-	293	276	270	172
6	13.90	-	295	277	271	173
8	25.90	-	314	295	289	184

Type L			Rated Working Pressure (PSIG)			
Nominal Diameter	Weight /ft. (lbs)	Feet/ Bundle	150°F	200°F	300°F	400°F
1/4	0.126	500	775	729	714	456
3/8	0.198	500	662	623	610	389
1/2	0.285	500	613	577	565	361
5/8	0.362	200	537	505	495	316
3/4	0.455	200	495	466	456	291
1	0.655	100	420	395	387	247
1 1/4	0.884	100	373	351	344	219
1 1/2	1.14	100	347	327	320	204
2	1.75	-	309	291	285	182
2 1/2	2.48	-	285	269	263	168
3	3.33	-	270	254	248	159
3 1/2	4.29	-	258	243	238	152
4	5.38	-	249	235	230	147
5	7.61	-	229	215	211	135
6	10.2	-	213	201	196	125
8	19.3	-	230	216	212	135

Contractor \_\_\_\_\_

Wholesaler \_\_\_\_\_

JMF Rep \_\_\_\_\_

### INSTALLATION

Installations must comply with the latest applicable building codes for the local jurisdiction. For detailed installation instructions, consult the Copper Development Association at copper.org.

### REFERENCE

C12200 99.9% Pure Copper (can be used for potable water)  
NSF/ANSI 61 Annex G Safe Drinking Water Act (third party certification)  
ASTM B88 Seamless Copper Water and Gas Tube (Type K, L, M)  
ASTM B280 Seamless Copper Tube for Air Conditioning

Type M			Rated Working Pressure (PSIG)			
Nominal Diameter	Weight /ft. (lbs)	Feet/ Bundle	150°F	200°F	300°F	400°F
3/8	0.145	500	485	456	447	285
1/2	0.204	500	420	395	387	247
3/4	0.328	200	346	326	319	204
1	0.465	100	286	270	264	169
1 1/4	0.682	100	287	271	265	169
1 1/2	0.94	100	282	265	259	166
2	1.46	-	254	239	234	149
2 1/2	2.03	-	233	219	215	137
3	2.68	-	215	203	199	127
3 1/2	3.58	-	214	202	197	126
4	4.66	-	213	201	197	126
5	6.66	-	198	186	182	116
6	8.92	-	186	175	171	109
8	16.5	-	195	183	180	115

Type DWV			Rated Working Pressure (PSIG)			
Nominal Diameter	Weight /ft. (lbs)	Feet/ Bundle	150°F	200°F	300°F	400°F
1 1/4	0.65	100	280	269	258	165
1 1/2	0.809	100	249	240	230	147
2	1.07	-	185	178	170	109
3	1.69	-	135	130	125	80
4	2.87	-	127	122	117	75
5	4.43	-	129	124	119	76
6	6.1	-	126	121	116	74
8	10.6	-	124	119	114	73

Tables give computed allowable stress for annealed copper tube at indicated temperature.

### TECHNICAL DATA

All ratings listed for types K, L, M, DWV and refrigeration service tube in the preceding charts are calculated for tube in the annealed condition. These values should be used when soldering, brazing or welding is used for joining components in a system. While the ratings for hard drawn tube are higher, they should only be used for systems using properly designed flare or compression mechanical joints, since joining by any heating process might anneal (soften) the tube. In designing a system, careful consideration should also be given to joint ratings as well as those of the components.

JMF COMPANY IS YOUR CONSOLIDATING SOURCE FOR copper tubing, line sets, copper fittings, push to fit, pex, ball valves, gas valves, plumbing valves, malleable fittings, steel nipples, plastic fittings, brass threaded, brass nipples, flare & compression, gas connectors, water connectors, appliance kits, cord sets and MORE.

