



# LINE SETS



**ductless**



**plain end**



**fully assembled**

**Flare Nuts – 410A Approved**

**45° Flare - Forged Construction  
(not bar stock)**

**Flares – 45° Machine Flared**

**OEM Approved Insulation & Flare Nuts**

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# LINE SETS

JMF COMPANY



## Twin Tube insulation for ductless (mini split) line sets!

JMF announces the introduction of "Twin Tube" insulation for ductless (mini split) line sets!

Twin Tube insulation will be offered in four sizes and will be available in 1/2" wall insulation.



### LINE SET PRODUCTS

<b>Temper</b>	060 (Soft Anneal) - Annealed to customer specifications
<b>Lengths</b>	Available from 10'-60' using 5' intervals/other lengths available upon request
<b>Uses</b>	Split system air conditioning, chilled water systems, and warm water systems
<b>Specifications</b>	Currently there is no ASTM specification for insulated copper tube
<b>End Finishing</b>	90° bends, plain end or brass forged flare nuts (specialty line sets/ductless)

### COPPER TUBE

<b>Standard</b>	Suction Line: 5/8" - 1-1/8"	Liquid line: 1/4" - 1/2"
<b>Specialty</b>	Suction Line: 3/8" - 1-1/8"	Liquid Line: 1/4" - 1/2"

**Materials:** The designation is alloy UNS 12200 and referred to as DHP. The DHP stands for a phosphorus deoxidized copper with a high residual phosphorus range of .015% to .040%. The copper content is 99.9% copper. The tubing is fully annealed to the soft temper designation of 060.

### REFRIGERANT

<b>Specialty</b>	R 22	R 404-A	R 502	R 134-A	R 410-A
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### INSULATION

<b>Standard</b>	Suction Line: 1/4" - 1"	Liquid line: Not Insulated
<b>Specialty</b>	Suction Line: 1/4" - 3/4"	Liquid Line: 1/4" - 3/4"

<b>Cell Structure</b>	Closed Cell	Test Method: NA
<b>Density</b>	4/6 lbs/ft	Test Method: ASTM D1667
<b>Thermal Conductivity</b>	-75°	Test Method: ASTM C177 0.257
<b>Service Temp</b>	-40° F to 220°	Test Method: NA
<b>UV Weather Resistance</b>	Excellent	Test Method: ASTM G23
<b>Ozone Resistance</b>	No Cracking	Test Method: ASTM D1171
<b>Water Vapor Permeability</b>	0.10 PERM-IN (0.15x 10-12)	Test Method: ASTM C355
<b>Water Absorption</b>	0.2	Test Method: ASTM C109
<b>Flammability</b>	25/50	Test Method: ASTM E84
<b>Smoke Density</b>	Self Extinguishing	Test Method: ASTM D635
<b>Flexibility</b>	Excellent	Test Method: NA

### INSULATION R VALUES

3/8" Wall - R 2.5	1/2" Wall - R 3.3	3/4" Wall - R 5.2	1" Wall - R 7.4
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\*R - Value calculation using a K-Factor of 0.25 BTU-in/hr-ft (2)-F @ 75°F, 24°C mean temp.