

ISO

Pre-Insulated Copper Line Sets

- Individual pre-insulated rolls to perfectly fit every ductless mini-splits, VRF, heat pumps and unitary systems installation.
- Available in 50ft, 82ft and 164ft with 1/2" insulation thickness and in single or twin pipe.
- All rolls are wrapped in clear film for added protection and marked by the foot for maximum waste reduction.



Tested in accordance with
UL 94, UL 723A, UL 746A



ASTM B280

ASK FOR
ISO

COPPER PIPE

- Made in accordance with applicable regulations, with cleaned inside surfaces, phosphorous deoxidized, high residual phosphorous, annealed in coils. Crimped ends to keep the pipe clean until it has been installed.
- Minimum Cu $\geq 99.90\%$
- Phosphorous content = $0.015\% \div 0.040\%$
- **Approved to ASTM B280 - Type ACR**
- Perfect for applications where high-pressure gases are used as refrigeration source.

INSULATION

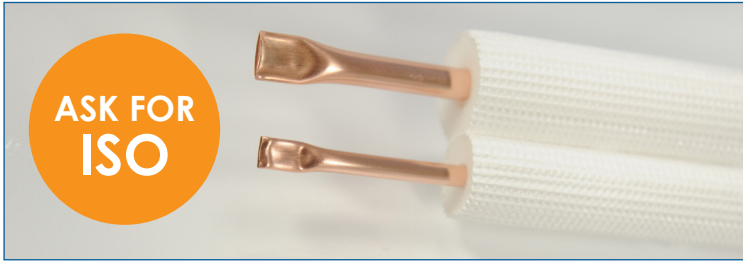
- Low density closed cells polyethylene foam
- CFC and HCFC damaging-ozone gas free
- Made according to **ASTM C 1427-07**, type I (tubular), grade I (insulation material for use on typical commercial system non-cross-linked)
- Surface burning characteristics: **UL 94**, top rated for Surface Burning Characteristics – **UL 723** (Flame and Spread Index less than 25 and Smoke Development Index less than 50), **ASTM E84** (25/50) compliant and tested in accordance with **UL 746A** for Ignition Resistance.

SHEATH

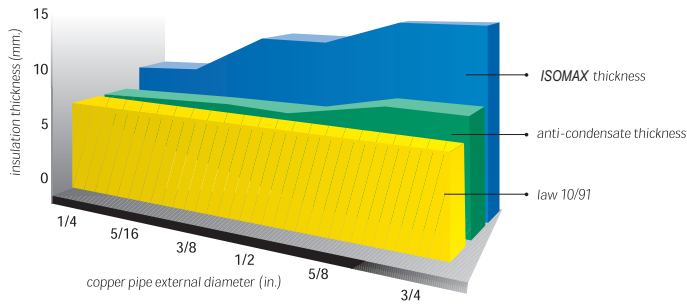
- External UV-retardant LDPE foil covering which adheres to a non-fammable base, melts flameless belongs to self-extinguish Class.
- Marked progressively every foot with product details (pipe and insulation diameters) and production date & time.
- Excellent resistance to water vapor diffusion and substantial reduction of moisture on the outer surface of the pipe.
- Additional protection to foam insulation from tearing during installation process.
- **EXTERIOR INSULATION MUST BE PROTECTED FROM EXTERIOR HAZARDS** (ASHRAE 90.1-2013 & IECC- 2015)

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COPPER PIPE WALL THICKNESS	ASTM B280	
INSULATION THICKNESS	1/2" (12.7 mm)	R-Value: 4
OPERATING TEMPERATURE RANGE	-112°F / 208°F (-80°C / +98°C)	
COEFF. OF WATER VAPOR DISPERSION	5482 μ	
THERMAL CONDUCTIVITY	0.0397 W. m ⁻¹ . K ⁻¹	
INSULATION DENSITY	99 lbs/cubic ft (45 Kg/m ³)	
FIRE RESISTANCE	Class 1 (self-extinguishing)	
PACKAGING	Comes in single coils wrapped in clear film for added protection.	



PART NUMBER	PIPE	INSULATION	LENGTH (FT)
SINGLE Pre-Insulated Copper Pipe Coils			
ISO14-12-50	1/4"	1/2"	50
ISO38-12-50	3/8"	1/2"	50
ISO12-12-50	1/2"	1/2"	50
ISO58-12-50	5/8"	1/2"	50
ISO34-12-50	3/4"	1/2"	50
ISO78-12-50	7/8"	1/2"	50
ISO14-12-164	1/4"	1/2"	164
ISO38-12-164	3/8"	1/2"	164
ISO12-12-164	1/2"	1/2"	164
ISO58-12-164	5/8"	1/2"	164
ISO34-12-82	3/4"	1/2"	82
ISO78-12-82	7/8"	1/2"	82
DOUBLE Pre-Insulated Copper Pipe Coils			
Bi14X38-12-50	1/4" and 3/8"	1/2"	50
Bi14x12-12-50	1/4" and 1/2"	1/2"	50
Bi14x58-12-50	1/4" and 5/8"	1/2"	50
Bi38x12-12-50	3/8" and 1/2"	1/2"	50
Bi38x58-12-50	3/8" and 5/8"	1/2"	50

BARE COPPER PIPE DIMENSIONS	THICKNESS OF INSULATING SHEATH	NOMINAL BURSTING PRESSURE [MPa]	NOMINAL WORKING PRESSURE (ASTM B111 M) [atm]
1/4" (6.35 x 0.762 mm)	1/2" (12.7 mm)	56.54	14.14
3/8" (9.52 x 0.813 mm)	1/2" (12.7 mm)	37.71	9.43
1/2" (12.70 x 0.813 mm)	1/2" (12.7 mm)	28.27	7.07
5/8" (15.88 x 0.889 mm)	1/2" (12.7 mm)	28.28	7.07
3/4" (19.05 x 0.889 mm)	1/2" (12.7 mm)	23.55	5.89
7/8" (22.22 x 1.14 mm)	1/2" (12.7 mm)	21.50	5.35



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