



SUBMIT INFORMATION FOR STANDARD AND MINI SPLIT LINE SETS FOR HVACR APPLICATIONS

Job Name: _____

Contractor: _____

Job Location: _____

Wholesaler: _____

Product Description:

cerros[®] Standard and Mini Split Line Sets are available in either an elastomeric or coated elastomeric insulation for use in HVACR applications. All line sets will be manufactured in the United States.

Material:

cerros[®] Standard and Mini Split Line Sets copper tube shall be made from C12200 grade of copper. Insulation is choice of elastomeric or coated elastomeric material. Elastomeric insulation has a UV retardant added but it is recommended to cover or apply a coating for long term exposure. Coated elastomeric insulation utilizes a co-extruded jacket that requires no additional cover or coating.

Specifications:

cerros[®] Standard and Mini Split Line Sets are made to meet the requirements of ASTM B1003.

cerros[®] Standard and Mini Split Line Sets are 3rd party verified in select sizes through Underwriters Laboratories (UL) for operating pressure of 700psi at 250°F. This rating includes fully annealed and brazed copper tubing.

Installation Information:

To ensure the installation of all Linesets products is performed correctly, please adhere to these required industry installation practices. This includes our standard elastomeric insulation and Black Shield Insulation.

In order to minimize heat loss and control condensation, proper sealing of the line set insulation during the Installation process in accordance with ASTM C1710 is mandatory.

It is especially important to seal the end of pipe run to prevent ambient air from entering the system. Failure to do so could result in condensation formation between the insulation and pipe.

cerros[®] advises using Armacell 520 adhesive.



Product Data

Mark Selection

Product	Temper	Lengths	Uses	Specification	End Finishing
Standard Linesets	050-060 (Soft Anneal) Annealed to customer specification	Available from 10' to 65' using 5' intervals Other lengths are available up customer request	Split system air conditioning Chilled water systems Warm water systems	UL 207 ASTM B1003-16	Plain End 90 degree bend
Specialty Linesets	050-060 (Soft Anneal) Annealed to customer specification	Available 10' to 100' Other lengths are available up customer request	VRF/VRV Ductless mini-splits Ice Makers Chilled water systems	UL 207 ASTM B1003-16	Plain End Flare Nuts
Suction Line Only Linesets	050-060 (Soft Anneal) Annealed to customer specification	Available in 25', 50', 100' coils	VRF/VRV Ductless mini-splits Ice Makers Chilled water systems	UL 207 ASTM B1003-16	Plain end



Copper Tube Sizes

Insulation Thickness

Product	Suction Line	Liquid Line	Suction Line	Liquid Line
Standard Linesets	5/8", 3/4", 7/8", 1-1/8" Please circle size	5/16", 3/8" Please Circle size	3/8", 1/2", 3/4", 1" Please circle size	LL not insulated on standard linesets
Specialty Linesets	3/8", 1/2", 5/8", 3/4" Please circle size	1/4", 3/8" Please Circle size	3/8", 1/2", 3/4", 1" Please circle size	3/8", 1/2", 3/4", 1" Please circle size
Suction Line Only	1/4", 3/8", 5/8", 3/4", 7/8", 1-1/8" Please circle size	N/A	3/8", 1/2", 3/4", 1" Please circle size	N/A

R-Values

Mark Insulation Selection

Insulation Type	Insulation Photo	Max/Min Temperature Rating	UV Test Conditions (1-Year Miami)	UV Test Result Per Insulation MFG.	R-Value 1/2" Tube Size	R-Value 3/4" Tube Size	R-Value 1" Tube Size
Standard NBR/PVC Black Elastomeric.		220°F/92 °C -297 °F/-128 °C	Not Tested. Use additional Protection	N/A	1/4">3.8, 3/8">3.3, 1/2">3.3, 5/8">3.3, 3/4">3.3, 7/8">3.3, 1-1/8">3.3	1/4">6.4, 3/8">5.9, 1/2">6.4, 5/8">5.5, 3/4">5.5, 7/8">5.9, 1-1/8">5.4	1/4">9.0, 3/8">8.0, 1/2">7.2, 5/8">7.2, 3/4">7.0, 7/8">7.0, 1-1/8">7.0
Jacketed NBR/PVC Black Shield		220°F/92 °C -297 °F/-128 °C	ASTM G154 Cycle 1 for 5,000 Hours	Excellent: No Deteriorations			

*Per Armacell

Spec Compliance

- ASTM B1003
- ASTM C 534, Type II —
- Sheet Grade 1
- ASTM C 1534
- ASTM E 84, NFPA 255, UL 723
- CAN/ULC S102
- NFPA 90A, 90B
- ASTM G21/C1338
- ASTM G22
- ASTM D 1056, 2B1
- MIL-P-15280J, FORM S
- MIL-C-3133C (MIL STD 670B),
- Grade SBE 3
- MEA 107-89M
- UL 181
- UL 94 5V-A, V-0, File E 55798
- City of Los Angeles – RR 7642
- ASTM D 1149

Product Data Continued

PHYSICAL PROPERTIES

Specifications	Values	Test Method
Thermal Conductivity, Btu · in./h · ft ² · °F (W/mK) 75°F Mean Temperature (24°C) 90°F Mean Temperature (32°C)	0.245 (0.035) 0.254 (0.037)	ASTM C 177 or C 518
Water Vapor Permeability, Perm-in. [Kg/(s·m·Pa)]	0.05 (0.725 x 10 ⁻¹³)	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index through 1" (25mm)*	25/50*	ASTM E 84 CAN/ULC S102
Mold Growth Fungi Resistance Bacterial Resistance	UL181 ASTM G21/C1338 ASTM G22	Meets requirements Meets requirements Meets requirements
Water Absorption, % by Volume	0.2%	ASTM C 209
Upper Use Limit	220°F (105°C)**	ASTM C 534
Lower Use Limit	-297°F (-183°C)**	ASTM C 534
Ozone Resistance	GOOD	Ozone Chamber Test

Refrigerants

All of our **cerrosset** linesets are purged with dry nitrogen and capped to ensure a clean, non-oxidized tube prior to installation. They're also UL compliant to operating pressures of 700psi at a continuous operating temperature of 250°F. Refrigerants approved for use include R-22, 404-A, R-502, R-134-A, R410-A, R-454-A, R-32 and more.

cUL[®] us 700 PSI R410A



CerroSet® Standard Insulated Linesets
 Continuous copper tubing with flexible, elastomeric, closed-cell foam that offers efficient insulation and also protects the tube from moisture.



CerroSet® Black Shield Jacketed Insulated Linesets
 Features high-quality thermal insulation that is moisture-resistant and UV-resistant – with an added durable protective jacket that protects against damage during installation, as well as from extreme heat, cold and sun/UV exposure. Meets code requirements for outdoor insulation and for installation in plenums.



**cerrosset does not independently verify the following information provided by its vendors and makes no representation to the accuracy or completeness of information.