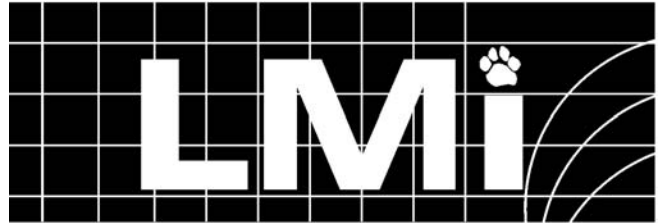
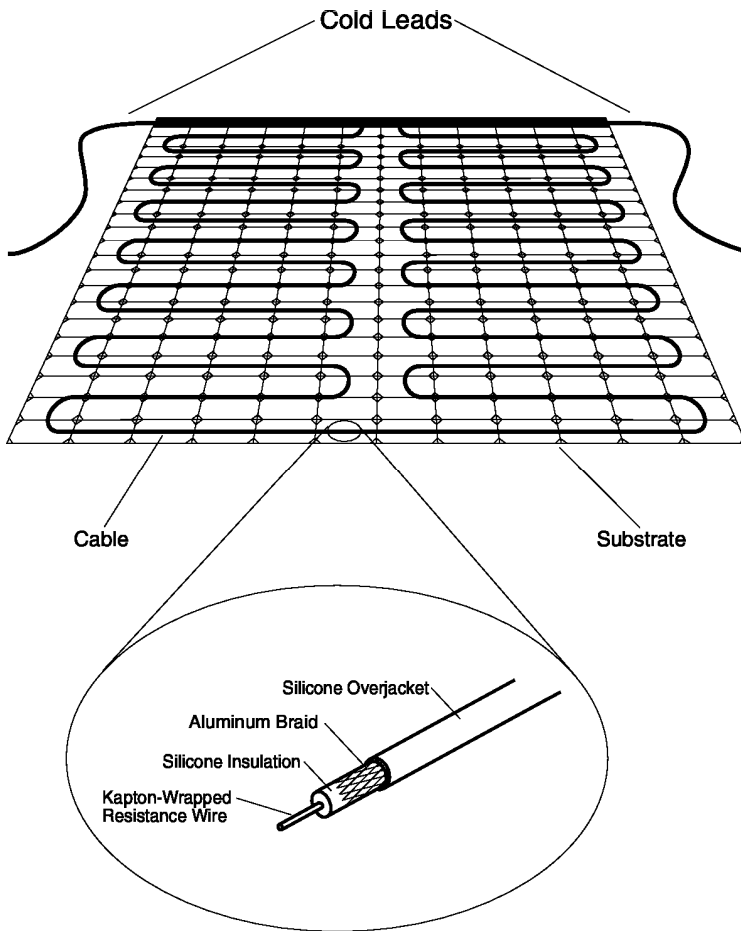


# SNOW MELT MATS



Manufacturing Group, LLC

LMI snow melt mats are designed for residential and commercial installations in either concrete or asphalt. For use in both new installations and repaving applications. Mats are available in a variety of widths and lengths. A wide range of voltages can also be specified.



Step Mats Available

Easy To Install

Waterproof

Versatile

Inexpensive

One-Pour Method

High Watt Densities

20-Foot Cold Leads

Low Installation Costs

Custom Sizes Avail.

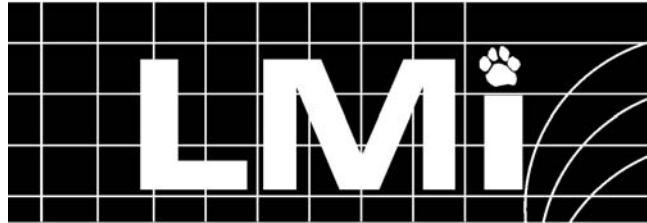
Meet IEEE 515.1

Requirements

CSA Certified

LMI Manufacturing Group, LLC  
1802 North Carson Street, Suite 212-2656  
Carson City, NV 89701  
Phone: 866-770-9416  
Fax: 877-469-3625





Manufacturing Group, LLC

## Mat Description

LMI's snow melt mats consist of silicone jacketed heating cable, cold leads, and a polyethylene substrate. Mats are CSA Certified.

**Resistance Heating Cable** — The heating cable is comprised of a high-tensile-strength alloy conductor wrapped with 4 mil Kapton<sup>®</sup> tape. The conductor is encased with a .034" thick, off-white silicone rubber rated at 150°C. An aluminum braid, equivalent to 16 AWG, is woven over the primary insulation to serve as a ground path and to provide mechanical strength. Another .031" layer of off-white silicone rubber is then extruded over the braid to provide water proofing and additional mechanical strength. The cable is spaced to produce a watt density of approximately 50 watts per square foot. Custom mats can be designed up to 60 watts per square foot. Custom designs can also include 120 volt applications. The cable output can be up to 12 watts per lineal foot.

**Cold Leads** — The standard 20' cold leads are either 10 or 12 AWG, depending upon amperage ratings. The stranded copper conductor is encased with .031" thick, red PVC insulation, which is MTW construction. A braid equivalent to 16 AWG is woven over the primary insulation to serve as a ground path and to provide mechanical strength. Another .020" thick layer of black PVC, rated at 105°C, is then extruded over the copper braid to provide water proofing and additional mechanical strength.

**Polyethylene Substrate** — The orange substrate is a very coarse mesh of high-density polyethylene with openings large enough (approx. 1" x 3") to allow concrete to flow through during a pour.

## Mat Construction

**Cold Lead To Cable** — The hot-cold splices are terminated using crimped parallel connectors and then soldered for extra strength. Kapton tape is applied over the splices, followed by shrink sleeves. Splices are then covered by two layers of self-fusing silicone rubber tape. The ground braids are joined using crimped parallel connectors, and then the splices are wrapped with Kapton tape, followed by silicone rubber tape. The entire splice area is sealed with a polyolefin shrink sleeve.

**Cable To Mat** — Nylon cable ties join the resistance

cable to the substrate.

Typical Snow Melt Sizes

Part Nos.	Size	Volts	Watts	Amps
MA-18 x 5	18" x 5'	208		1.8
MB-18 x 5	18" x 5'	240	375	1.6
MC-18 x 5	18" x 5'	277		1.4
MA-18 x 10	18" x 10'	208		3.6
MB-18 x 10	18" x 10'	240	750	3.1
MC-18 x 10	18" x 10'	277		2.7
MA-18 x 20	18" x 20'	208		7.2
MB-18 x 20	18" x 20'	240	1500	6.3
MC-18 x 20	18" x 20'	277		5.4
MA-18 x 30	18" x 30'	208		10.8
MB-18 x 30	18" x 30'	240	2250	9.4
MC-18 x 30	18" x 30'	277		8.1
MA-36 x 5	36" x 5'	208		3.6
MB-36 x 5	36" x 5'	240	750	3.1
MC-36 x 5	36" x 5'	277		2.7
MD-36 x 5	36" x 5'	480		1.6
MA-36 x 10	36" x 10'	208		7.2
MB-36 x 10	36" x 10'	240	1500	6.3
MC-36 x 10	36" x 10'	277		5.4
MD-36 x 10	36" x 10'	480		3.1
MA-36 x 15	36" x 15'	208		10.8
MB-36 x 15	36" x 15'	240	2250	9.4
MC-36 x 15	36" x 15'	277		8.1
MD-36 x 15	36" x 15'	480		4.7
MA-36 x 20	36" x 20'	208		14.4
MB-36 x 20	36" x 20'	240	3000	12.5
MC-36 x 20	36" x 20'	277		10.8
MD-36 x 20	36" x 20'	480		6.3

Mat Includes 20 feet of cold lead. Additional cold lead available.  
Delta-Therm can also provide custom mat sizes.

## Assembled Cables

Assembled cables (not attached to mats) are available for snow melting in non-rectangular areas or in areas requiring no mat at all.

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