



ENGINEERED SOLUTIONS
FOR HEATING & SENSING

ISO 9001-2015



MICA STRIP HEATERS



MARATHON HEATER (I) PVT. LTD.

188A, B-169 (Part), B-188 & B-189 (A), Road No.-5, M.I.A., Madri, Udaipur, (Rajasthan.) INDIA 313 003

Ph.: +91 294 3507749, Fax: +91 294 3507731, Cell No. : +91 9351159988

E-mail : info@marathonheat.com, akhil@marathonheat.com

www.marathonheat.com

MICA STRIP HEATERS

Mica Strip Heaters are an outstanding industrial heating product and are extremely effective in surface heating applications. Mica Strip heaters are suitable for low to medium temperature heating requirements.

They are composed of a nickel chromium resistance ribbon, uniformly wound on specially selected mica strip to provide uniform heat distribution. The winding is insulated using high grade mica of appropriate thickness to provide

excellent thermal conductivity dielectric strength. The mica assembly is enclosed in stainless steel sheath which provides high mechanical strength and corrosion resistance temperatures as high as 650°C. Mica Strip offers a wide variety of termination options and available with or without mounting tabs. They can incorporate holes and cut-outs to meet special requirements.

Construction



1. Nickel Chromium Resistance Ribbon wound for even heat distribution.
2. Mica Strip specially selected for longer heater life.
3. Mica Insulation high grade for excellent thermal conductivity
4. Stainless steel sheath resistance in wide variety of environment. Suitable temperatures as high as 650°C.

Technical Specifications

- **Sizes** : minimum 5/8" wide, length 5 1/2" to 48", 5/16" to 3/8" Thick
- **Sheath Material** : Stainless Steel
- **Maximum sheath temperature** : 650°C (1200°F)
- **Maximum Watt Density** : 45 W/in²
- **Maximum Voltage** : 480 V
- **Wattage tolerance** : +5%, -10%
- **Resistance tolerance** : +10%, -5%

Note : For Custom design requirement, contact factory sales@marathonheat.com

Features And Benefits

- Available with or without mounting tabs
- Easy and economical to install
- Corrosion and vibration resistant
- Durable, versatile and easy to control
- Uniform Heat Distribution
- Suitable for low to medium temperatures

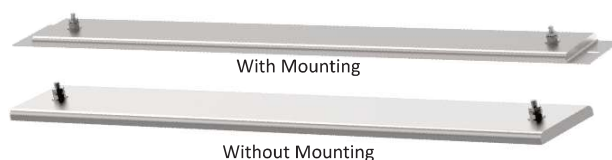
Application

- Blow Molding
- Heating Rubber Platten
- Compression molding
- Heating inks
- Sealing bars
- Food warming
- Packaging and sealing
- Laboratory equipment
- Hot Plates and ovens

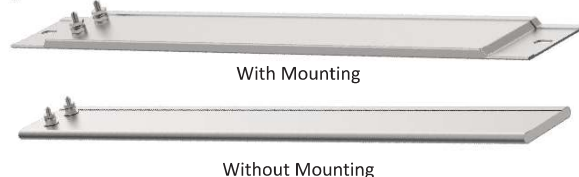
Termination Options

1) Screw termination

1) Both End



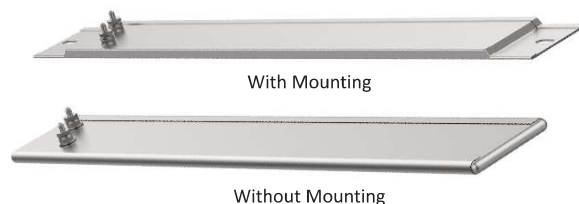
2) Parallel



3) Offset



4) Tandem



1) Lead Wire termination option





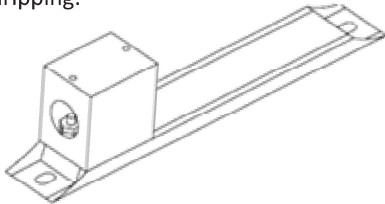
Lead wire Protection termination

Lead wires exiting through the heaters can be provided with protective covering of-

- **Stainless Steel Braid** - stainless steel braid provides excellent abrasion protection while allowing the leads to bent in a tight radius
- **Stainless Steel Flexible Conduit** - Flexible conduit provides maximum protection to leads from abrasion but cannot bent as sharply as stainless steel braid.
- **Copper Elbow and Stainless Steel Flexible Conduit** - flexible conduit can be attached with a copper elbow.
- **Sleeving**
 - ✓ Silicon Rubber Fiber Glass Sleeking- Maximum temperature 200°C, can sleeve both leads together or each lead separately.
 - ✓ Fiberglass Sleeking- Maximum temperature 240°C, Good for lead protection

Terminal Box

Terminal box are used to cover the terminals and hence act as an safety feature. It also guards heater terminals from spillover, dripping.



Special Heater Design Options

Mica Strip Heaters can also be designed in various shapes such as Disc shaped, ring shaped or any irregular shape.