

GUTTER MELT

**Self Regulating Roof, Gutter,
Downspout, and Drain Heating Products**

GutterMelt SR Design & Installation Manual

POWER PLANT SUPPLY CO CANADA STOCKING DISTRIBUTORS
CALL 902 435 9899 - 416 752 3339 <mailto:atlantic@powerplantsupplyco.com>
<http://powerradiantfloorheat.com/guttericemelting.html>

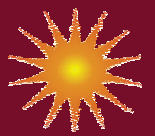


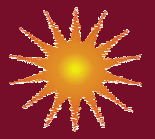
Table Of Contents:

Product Overview.....	1
Cable Specifications.....	2
Warnings and Reminders.....	3
Design and Installation.....	4
Plan Connections.....	8
Troubleshooting.....	11
Resistance Recording Page.....	12
Warranty.....	13



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• Gutters • Downspouts • Roof Eaves



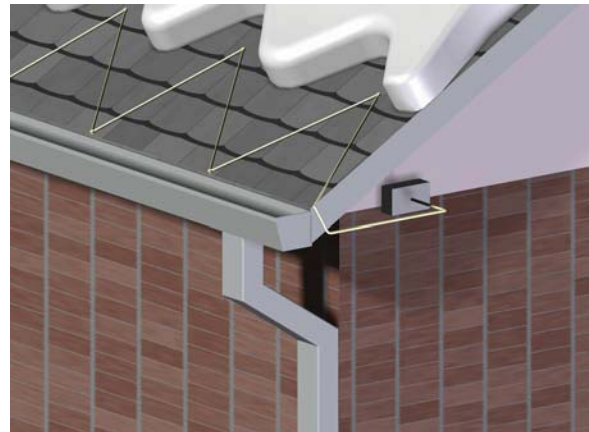
Heatizon Systems' GutterMelt® SR rain gutter, downspout, and eave deicing systems provide heat to maintain water flow paths on eaves, and in gutters, downspouts and drains. This heating cable is placed directly on top of the roofing material and/or in the rain gutter, downspouts and drains of a building. Heatizon Systems products can be activated by a large variety of activation alternatives ranging from a simple switch to an automatic temperature moisture sensor.

ADVANTAGES

- Prevents costly damage to roofs, gutters and downspout drains caused by snow
- May be applied anywhere melted snow or ice can penetrate and refreeze
- Eliminates lifting shingles, pull away gutters and broken gutters and downspouts
- Industry leading warranty—designed for reliability
- SR delivers up to 24 Watts per foot at 32°F (Smaller version delivers up to 10 Watts per foot at 32°F)
- Maximum 180 ft. cable length for 120VAC
- Maximum 360 ft. cable length for 208, 240, and 277VAC
- 480VAC Available by special order
- Field cut to fit any project
- Many activation options including snow/ice sensor

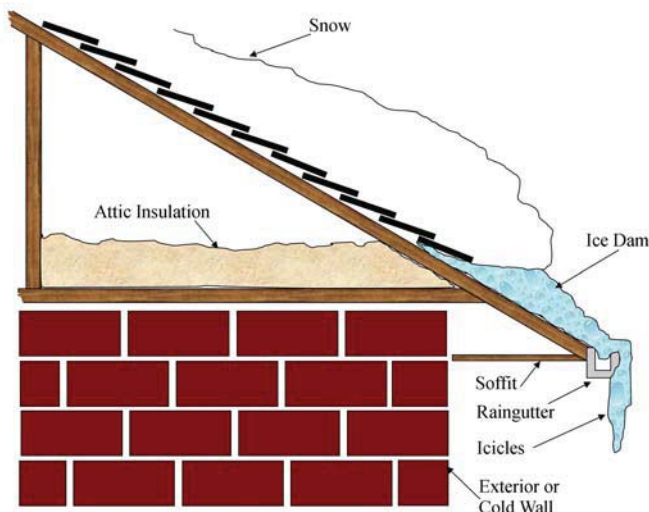
FAST & EASY INSTALLATION

Heatizon Systems GutterMelt® SR system utilizes easy to install SR cable to provide reliable freeze protection of roofs, gutters, downspouts and roof drains. Simply run the cable in gutters using Heatizon foil tape with pressure sensitive adhesive to secure cable placement. The cable can also be inserted in downspouts using downspout hangers to support the heating cable. Roof clips attach the cable to standard roofing material. GutterMelt® SR cable may be cut to length making installation easy and convenient.



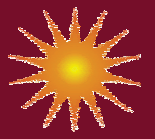
ENERGY EFFICIENT AND COST EFFECTIVE

GutterMelt® SR automatically adjusts its heat output and energy consumption as ambient conditions change. When precipitation is expected, simply energize the cable. The cable provides maximum melting power when snow or ice is present, but will automatically regulate its output and save energy when the roof and gutters are clear of snow and ice.



VALUE

Winter has many freeze thaw cycles that can cause millions of dollars of damage to roofs, gutters, and downspouts, and drains every year. As winter progresses buildings experience ice buildup which can lead to roof damage, or damage caused by snow and ice falling from the roof. These cycles can cause ice to accumulate and back up under shingles, resulting in ice dams. In some cases, damage appears in the form of soaked insulation, stained, cracked and damaged sheet rock, damp, smelly, rotting wall cavities and stained, blistered and peeling paint. Heatizon Systems has the products and expertise to effectively solve potential winter issues and protect your investment by managing ice dams, minimizing icicles, and keeping ice from accumulating in gutters and downspouts.



GutterMelt® SR Cable Specifications

Heating cable	GutterMelt® SR
Voltage	120, 208, 240, 277 or 240V *
Watts at 32°F (0°C)	Up to 12W per lin. ft.
Length	Refer to product label
Diameter/Height	Approx. 0.26" x 0.75"
Bending Radius	Not tighter than 2" inside diameter
Cable Type	SR
Max Withstand Temp	185°F (85°C)
Max Maintain Temp	150°F (65°C)
Minimum Spacing	2"
Standard Spacing	2' along eave line
Cap Thickness	None Required

* 480V Available upon request

Electrical Connection Wiring

120 and 277V Connection		208, 240 and 480V Connection	
Phase	Cold Lead	Phase	Cold Lead
Neutral	Cold Lead	Phase	Cold Lead
Ground	Shield	Ground	Shield

Note: It is important that GutterMelt® SR be installed only by qualified persons who are familiar with the proper sizing, installation, construction and operation of snow melting systems and the hazards involved. GutterMelt® SR products are designed for on roof, in rain gutter, and in downspout drain applications.

Note: GutterMelt® SR must be installed in accordance with the manufacturer's installation instructions, as well as with the National Electric Code (NEC) and Canadian Electrical Code (CEC), part 1, and local codes and regulations.

Note: Ground fault protection must be used when installing all GutterMelt® SR products. Refer to the NEC or CEC for specific requirements.

Note: Do not bend GutterMelt® SR Cable within 1.6" (40mm) of a termination or connection between the GutterMelt® SR Heating Element and the cold lead or power connection.

- Required Tools:
- 2500VDC Megohmmeter
 - Digital Multimeter (DMM)
 - Screwdrivers
 - Wire Stripper
 - Crimping Tool
 - Utility Knife
 - Heatshrink Heating Device

Note: GutterMelt® SR should be stored in a cool, dry location.

Warnings

- Failure to follow this Design and Installation manual may cause electrical shock, injury, damage or fire.
- Disconnect all power to GutterMelt® SR and its activators prior to handling, replacing or servicing.
- Read this entire Design and Installation Manual prior to installing GutterMelt® SR.
- Do not twist, kink, or spiral the GutterMelt® SR heating element.
- Always test GutterMelt® SR with a Megohmmeter Tester prior to installing, once installation is complete, and prior to energizing. All Megohmmeter tests must be performed at the power termination of the GutterMelt® SR cable, between the braided shield and the core wire(s).
- The minimum installation temperature is 40°F (5°C).
- Use only copper wire from the distribution panel to the GutterMelt® SR cold leads.
- Do not allow the GutterMelt® SR Heating Element to touch or cross other electrical conductors or gas lines.
- GutterMelt® SR's braid shield or copper tube must be grounded to a suitable earth ground.
- Do not exceed the maximum circuit lengths listed in this Design and Installation Manual.

Reminders

Always remember to test the insulation Resistance using a 2500 Vcd Megohmmeter, verify and record the actual results at specific points throughout the installation process. A resistance recording page is included in this manual for this purpose. If the taken readings are at anytime less than 20 megohms replace or repair the damaged cable. Do not energize the GutterMelt® SR, and call Heatizon Systems.

Roll the GutterMelt® SR spool to unreel the heating element. Do not pull GutterMelt® SR from the spool.

Verify that the supply voltage matches the design voltage of the GutterMelt® SR product you have purchased.

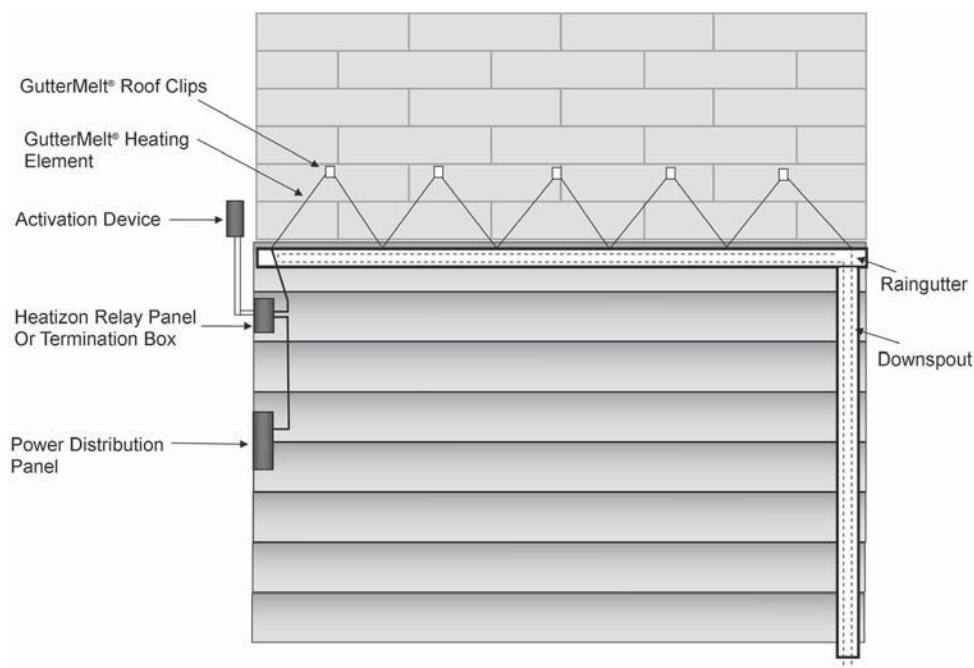
Install GutterMelt® SR in outdoor locations only .

To avoid the hazard of electric shock, disconnect all power prior to beginning installation of GutterMelt® SR. Effectively ground all installations prior to installing the GutterMelt® SR Heating Element in accordance with CSA Standard C22.1, Section 10, and with the NEC.

Contact Heatizon Systems at 888-239-1232 with any additional questions you may have.



Sample Application: GutterMelt® SR On a Roof (Two Conductor)



Annual Maintenance

Warning: Always disconnect power to GutterMelt® SR and its activators prior to handling, replacing and/or servicing.

Remove all debris from gutters and downspouts

Verify the integrity of the GutterMelt® SR by conducting a visual inspection and checking the insulation between the heating elements and the ground shield with a megohmmeter. Record the value if it exceeds 20 megohms for GutterMelt® SR Cable. If damage to GutterMelt® SR Heating Cable is discovered, and/or the Megohmmeter test yields a megohms reading less than 20, then correctly repair or replace the GutterMelt® SR with new cable.



Design and Installation

STEP 1 PLAN THE LAYOUT

Necessary Information:

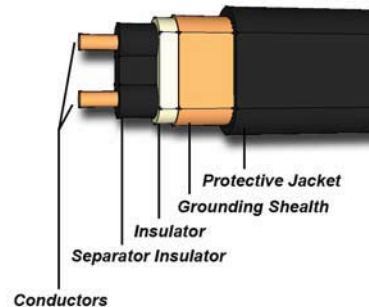
- Length of eaves, gutters, and downspout drains to be heated
- Voltage Available
- Type of Roof covering material

Draw a sketch of the area where GutterMelt® SR snow melt will be installed. The sketch should show all measurements and dimensions in order to determine the area to be snow melted. Determine the location for the GutterMelt® SR temperature/moisture sensor or other activation device.

Note: Make certain to plan for the movement of the water created when GutterMelt® SR melts snow and/or ice from the roof, gutters and/or downspouts to an acceptable location.

Note: The GutterMelt® SR Heating Element is designed for snow melt applications on roof, in gutter, and in downspout drain applications only.

Heatizon GutterMelt® SR Cable

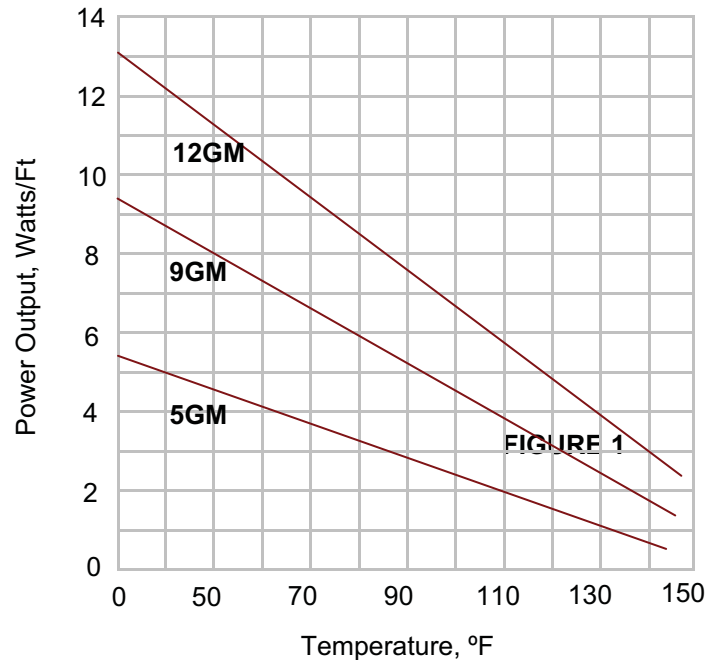


STEP 2 GUTTERMELT® SR SPECIFICATIONS

PERFORMANCE RATINGS

Copper bus wire	16 AWG
Nominal Power Output	5, 9, or 12 Watts/Ft in iced water at 32°F
Max Maintenance Temperature	150°F (65°C)
Max intermittent exposure temperature	212°F (100°C) T rating: T5
Voltage	120, 208, 240, 277 or 480 VAC
Watts at 32°F (0°C)	Up to 12W per lin. ft.
Length	Refer to product label
Diameter/Height	Approx. 0.22" x 0.42"
Bending Radius	Not tighter than 2" inside diameter
Minimum Spacing	2"
Cap Thickness	None Required

POWER OUTPUT CURVE



BREAKER SIZING AND MAX CIRCUIT LENGTH

120 Volt Breaker Sizing vs Max Circuit Length (ft)

	15A	20A	30A	40A
5GM1 If started at	40°F	300	—	—
	0°F	200	270	330
	-20°F	180	230	330
9GM1 If started at	40°F	150	200	210
	0°F	95	125	190
	-20°F	85	100	170
12GM1 If started at	40°F	115	150	180
	0°F	70	95	145
	-20°F	60	85	120

240 Volt Breaker Sizing vs Max Circuit Length (ft)

	15A	20A	30A	40A
5GM2 If started at	40°F	660	—	—
	0°F	410	560	660
	-20°F	360	480	660
9GM2 If started at	40°F	295	390	420
	0°F	195	250	375
	-20°F	170	225	340
12GM2 If started at	40°F	230	305	360
	0°F	150	200	300
	-20°F	130	175	260

240VAC Power Adjustment Factor

	208 Volts	277 Volts
5GM2	.86	1.16
9GM2	.92	1.09
12GM2	.96	1.05

Design and Installation



STEP 3 CONTACT POWER PLANT SUPPLY CO

Contact your GutterMelt® SR supplier for assistance in ordering the material needed. When materials arrive, examine the GutterMelt® SR roof deicing system design, and compare the list of materials ordered to those received.

STEP 4 PREPARE AREA

Ensure that the roofing material, gutters and/or downspout drains have been properly installed, and that drainage has been satisfactorily addressed.

Eliminate any nails, staples, or any other objects that may damage the GutterMelt® SR Heating Element prior to installation.

Clean and dry the rain gutters so that the provided foil tape will adhere to the bottom and hold the GutterMelt® SR cable in place.

STEP 5 MEASURE & RECORD RESISTANCE

Remove the GutterMelt® SR Heating Element from the box. Using a 2500 Vdc Megohmmeter Tester, check the insulation resistance of the Heating Element to make certain it is greater than 20MΩ. Confirm the Megohmmeter result by measuring the resistance with a Digital Multimeter and record the value measured on *Resistance Recording Table* at the back of this manual. Resistance measurement must be taken several times during the installation process: Immediately upon removal from the packaging, after installation of the heating element, and after cement, or asphalt application. GutterMelt® SR should also be checked for electrical continuity.



STEP 6 LOCATION SELECTION

Determine the location of the connection points between the power supply and the GutterMelt® SR Cable.

Next, determine the location of the activation device.

Remember, an automated activator is the “eyes and ears” of the roof, gutter, and downspout system. It is important that it be installed in a location that will allow it to turn the roof deicing system “on” when it is needed and “off” when it is not needed.

Manual activators require human action—as a result they should be placed in a location that is convenient and easily accessible.

Design and Installation



STEP 7 INSTALL THE ACTIVATOR

Install the selected activator by carefully following the specific set of instructions that were included in the packaging.

Warning: Do not allow the sensor conduit to cross the GutterMelt® SR Heating Element. Do not allow any part of the activator to touch the GutterMelt® SR Heating Element.

STEP 8 INSTALL GUTTERMELT® SR HEATING ELEMENT

Note: Always roll or uncoil the GutterMelt® SR to unreel the heating element. Do not pull GutterMelt® SR from the spool or coil. Never energize GutterMelt® SR Heating Cable while it is rolled or coiled on the spool.

Note: Visually check GutterMelt® SR Heating Cable for breaks, cuts, nicks, etc. If damage has been done to GutterMelt® SR Heating Cable or any of its components, please file a claim with the delivery service and call Heatizon Systems , 888-239-1232.

Using the determined spacing of GutterMelt® SR Heating Element, and the calculated length of GutterMelt® SR Heating Element, begin the installation. Heatizon Systems recommends a maximum 2 foot spacing along the eave edge for roof applications, and two runs of GutterMelt® SR for gutter and downspout applications. Note that the minimum distance between the GutterMelt® SR Heating Element runs should not be less than 2 inches.

Install the GutterMelt® SR Heating Element so that the starting and ending connection points and any activation sensor are in their desired locations. Make certain that the power end of GutterMelt® SR Cable returns back to the GutterMelt® SR Termination Box, Junction Box, or Heatizon Relay Panel.



Begin laying the GutterMelt® SR Heating Element in and across the area to be melted in evenly spaced runs.

Use **Roof Clips** purchased from your Heatizon Systems Distributor to attach GutterMelt® SR to the roof covering material.

Use **Foil Tape** purchased from your Heatizon Systems Distributor to attached GutterMelt® SR to the rain gutter.

Use **Downspout Hangers** purchased from your Heatizon Systems Distributor to install GutterMelt® SR into the downspouts or drains.

Warning: Do not damage or subject the GutterMelt® SR Heating Element to mechanical or shear stress. Never cut or damage the insulator on GutterMelt® SR Heating Element. Do not allow GutterMelt® SR to cross or touch gas lines or other electrical conductors.

Design and Installation



STEP 9 GUTTERMELT® SR INSTALL END KIT (SELF REGULATING ONLY)

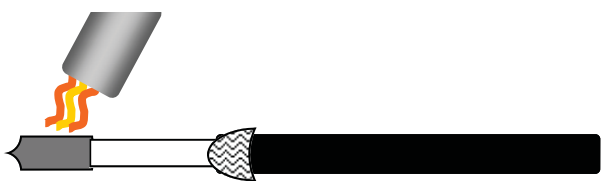
A. Score the outer jacket of the GutterMelt® SR Heating Cable 2" from the end of the cable. Remove the jacket to expose the braid. Do not cut the braided ground shield.



B. Push the braid back, and cut off the end 3/4" of the base cable.



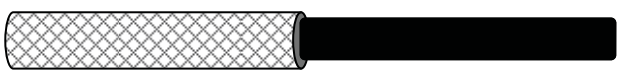
C. Slide the heat shrink cap over the end of the cable. Apply heat evenly until it shrinks around the cable.



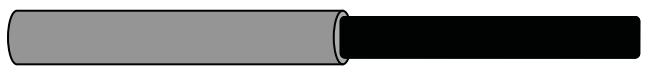
D. Pull the pushed-back braid over the sealed end cap and twist the braid end together.



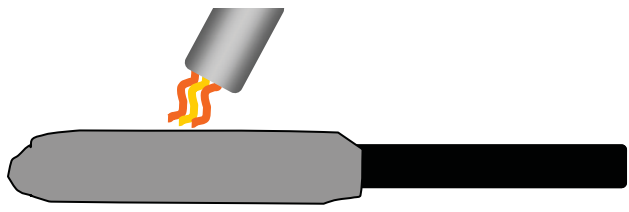
E. Slide the 4" woven braid sleeving over the end of the cable, allowing at least 1/2" to extend past the end of the cable.



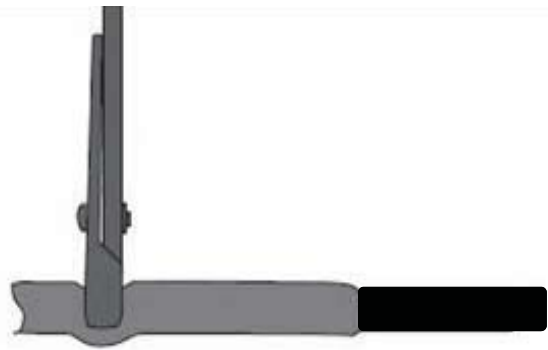
F. Slide the 5" heat shrink tubing over the woven braid piece, allowing 1/2" to extend past each end of the woven sleeving.



G. Apply heat evenly to the heat shrink tube until it shrinks around the cable. Be careful not to burn the heat shrink.



H. While the shrink tubing is still hot, gently squeeze the end of the heat shrink tube with pliers and hold until cool. Do not cut the heat shrink. The end must remain visibly sealed when the pliers are removed. If the tube does not remain sealed, then repeat steps F and G.



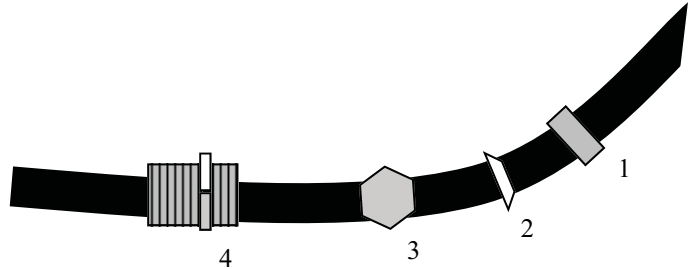
Warning: Do not overheat the tube or cable. Keep the heat source moving at all times.

Design and Installation

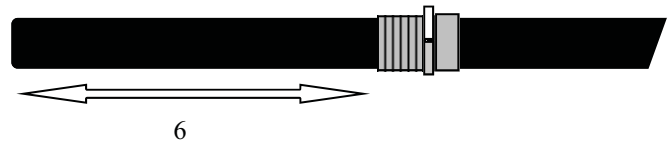


STEP 10 GUTTERMELT® SR INSTALL POWER TERMINATION KIT (SELF REGULATING ONLY)

A. Slide the four (4) components of the nylon cable connector onto the GutterMelt® SR Heating Cable in the order shown, right.



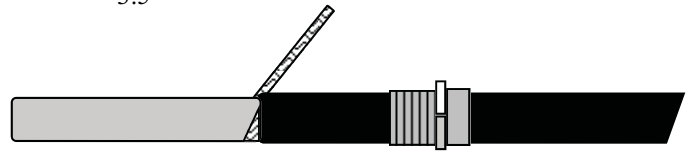
B. Assemble the connector and tighten, leaving six inches of cable extending through the connector.



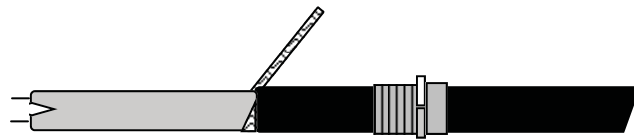
C. Score the cable outer jacket 3-3.5" from the cable end. Remove the jacket to expose the braid. Do not cut the braid.



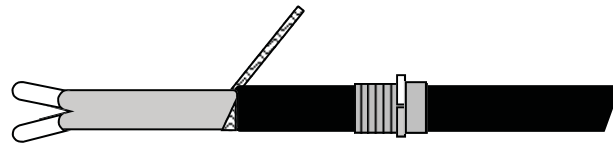
D. Pick the braid apart near the outer jacket and pull the cable through the opening in the braid. Twist the braid into a pigtail.



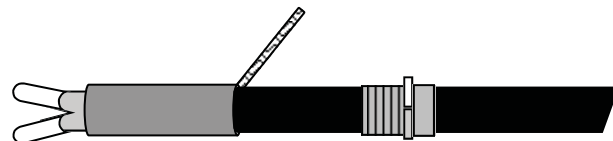
E. Using standard electrical cutters, cut a 3/4" long notch out of the cable, between the two conductor wires. Bare a 3/8" length of each conductor by stripping off the outside insulation and the inner black core material.



F. Slide one end of each of the two insulated barrel connectors over the bare portion of the conductors. Crimp the barrel connectors on using a crimping tool..



G. Slide a 3" length of heat shrink tubing over and

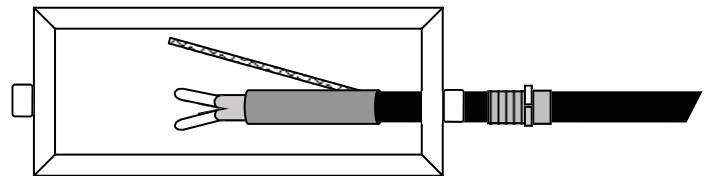


Warning: Do not overheat the tube or cable. Keep the heat source moving at all times.

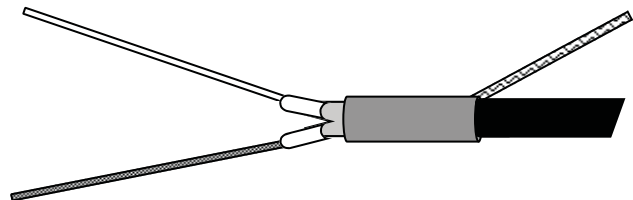
Design and Installation



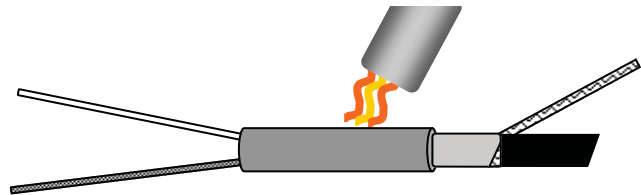
- H. Insert entire assembly into NEMA 4 or 4X Electrical Junction Box. Junction box should be protected from weather if possible.



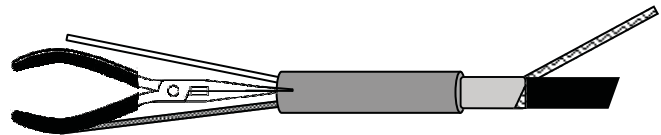
- I. Strip the incoming power leads and ground wire to expose a 3/8" length of bare conductor. Insert the bared portion of the power leads into the other end of the insulated barrel connectors and crimp them.



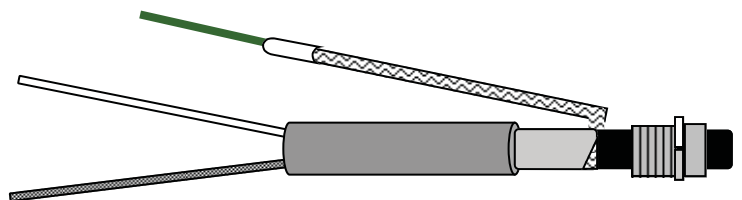
- J. Center the 3" length of heat shrink tubing over the connection. Apply heat evenly to shrink tubing around the heating cable, barrel connectors and power leads. Do not burn the heat shrink.



- K. While the shrink tubing is still hot, gently squeeze the shrink tubing between the power leads with needle-nose pliers and hold until cool. The shrink tubing must remain visibly sealed when the pliers are removed. If the tubing does not remain sealed, reheat the tubing and try again.



- L. Insert the end of the braided pigtail into one end of the uninsulated barrel connector and crimp it. Insert the stripped end of the ground wire into the end of the barrel connector and crimp it.



- M. Carefully push the connected wires into the power termination box and secure the cover. Screw the 1/2" compression cable connector into the power termination box to form a water tight seal.

- N. GutterMelt® SR Cable power leads may be connected to a Heatizon Relay Panel or appropriate activation device (see your Heatizon dealer for alternatives).

Warning: Do not overheat the tube or cable. Keep the heat source moving at all times.

Design and Installation



STEP 11 CONNECT POWER SUPPLY & ACTIVATION

The connection of an acceptable ground fault protection device power supply and the activation device must be done in accordance with the National Electrical Code (NEC) and the Canadian Electrical Code (CEC). The braided shield from GutterMelt® SR Cable must be wired to Ground for all primary power installations.

Caution: Never energize GutterMelt® SR until:

1. The GutterMelt® SR Cable has been verified to be free of damage.
2. All splices and all power kit and end kit connections have been inspected.
3. A Megohmmeter Test has been used to verify a minimum of 20 MegOhms between the heating element and the braided shield.

STEP 12 TROUBLESHOOTING

Problem: GutterMelt® SR Cable fails the Megohmmeter Test
Potential Causes:

- Check field installed power/end terminations, connections splices and tees; correct as necessary.
- Inspect the GutterMelt® SR Cable for damage to the insulator, exposed braided shield, and/or contact between the braided shield and the core wire(s). Replace entire length of damaged GutterMelt® SR Cable.

Note: In the event the power/end termination, splices or tees are not the cause of the failed Megohmmeter Test and the GutterMelt® SR Cable has not been damaged in any way, remove and replace the entire length of GutterMelt® SR. For Warranty claims, please return the entire length of GutterMelt® SR to Heatizon Systems, with the end termination and power termination connections intact, for evaluation prior to replacement.

STEP 13 COMPLETE AND ATTACH LABELS

WARNING! ELECTRIC SHOCK OR FIRE HAZARD

GutterMelt® Self Regulating Heat Trace System
Disconnect all power before installing or servicing heating cable. GutterMelt® SR must be installed and serviced by a qualified person in accordance with the National Electrical Code, NFPA 70, and/or the Canadian Electric Code. GutterMelt® SR must be effectively grounded to eliminate shock hazard. Damaged or worn heating cable or accessories must be replaced immediately. Failure to follow these warnings could result in personal injury or damage to property.



Place the included labels in the following locations:

- Electrical Panel Label — Inside door at electrical service panel. This label matches the information printed on the GutterMelt® SR Cable.
- Stop Sign Warning Label — on or near the area to be heated by GutterMelt® SR Cable



STEP 14 COMPLETE WARRANTY CERTIFICATE

Mail in the warranty certificate immediately after installing the GutterMelt® SR system. Failure to complete the warranty card could void the manufacturer's warranty. The warranty is subject to the guarantee conditions listed on the warranty certificate, and upon documentation that the required resistance readings were completed. You may wish to keep a copy of the warranty card for your reference.





Resistance Recording Page

Use a Digital Multi Meter to measure continuity through the GutterMelt® SR Heating Element, and no continuity between the heating element and the braided ground shield. GutterMelt® SR Cable should be tested using a megohmmeter set at 2500 VDC at least twice. The measured value should not be less than 20 Megohms. Record all test results below.



Prior to Installation (When removed from Package)		After Installation of GutterMelt® SR Heating Element on Substraight	
MΩ		MΩ	
Date	Time	Date	Time

Product & Accessory Information

GutterMelt® SR Heating Cable, 120VAC GutterMelt® SR Heating Cable, 208, 240, or 277VAC GutterMelt® SR Power Kit GutterMelt® SR End Kit	GutterMelt® SR Roof Clips GutterMelt® SR Foil Tape GutterMelt® SR Downspout Spacers Temperature/Moisture Sensor M330 Heatizon Relay Panel Many Different Activation Alternatives
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Customer Warranty Information

Name					
Address					
City		State		Zip	
Phone			Email		

Purchased Product Details

Model			Size	Sq. Ft.	
Manufacture Date			Serial Number		
Watts & Volts	Watts	Volts	Ohms	Ω	
Surface	Concrete <input type="checkbox"/>	Asphalt <input type="checkbox"/>	Sand Bed <input type="checkbox"/>	Other <input type="checkbox"/>	Retrofit <input type="checkbox"/>



Heatizon Systems GutterMelt® SR Warranty

Heatizon Systems warrants GutterMelt® SR Heating Element to be free from defects in material and workmanship for a period of ten (10) years. Such warranty periods shall commence on the date of shipment by Heatizon Systems. If any parts are found to be defective in manufacture during such time period, Heatizon Systems will, at its sole option, replace or repair defective parts.

This Limited Warranty applies only if articles sold hereunder (a) are selected, designed, and installed according to instruction and operation manuals furnished by Heatizon Systems and installed in a "workmanlike manner" according to the building association standards adopted by Heatizon Systems, (b) remain in their originally installed location, (c) are connected to proper power supplies, (d) are not misused or abused, (e) show no evidence of tampering, mishandling, neglect, damage (accidental or otherwise), modifications or repair without the approval of Heatizon Systems, or damage done to the product by anyone other than Heatizon Systems, and (f) are installed in accordance with applicable code requirements. Any warranty claims must be made in writing, no later than one (1) month following expiration of the warranty period, and must be accompanied by the warranted part or component. Any claim not made in such manner shall not be honored by Heatizon Systems.

This Limited Warranty does not cover:

1. The workmanship of any installer of Heatizon Systems radiant panel heating products.
2. Any Heatizon Systems radiant heating products that have a failure or malfunction resulting from improper or negligent operation, accident, abuse, misuse, unauthorized alteration or improper repair or maintenance.
3. Any Heatizon Systems radiant heating products that have had components not purchased from Heatizon Systems integrated into or connected to them.
4. Any labor costs for removal of alleged defective part(s) and/or reinstallation of replacement part(s), transportation to and from Heatizon Systems (if necessary) and any other material necessary to perform the exchange or repair.
5. Any Heatizon Systems heating products that have not been properly registered by completion and return of the Warranty Registration Card attached hereto within ninety (90) days of the date of sale..

DISCLAIMER OF WARRANTIES:

This warranty described above is in lieu of all other warranties, express or implied, including but not limited to any implied warranties of fitness for a particular purpose and merchantability. Heatizon Systems expressly disclaims and excludes any liability for losses, expenses, inconveniences, consequential, incidental, indirect, or punitive damages for breach of any express or implied warranty. By installing and/or purchasing Heatizon Systems products, you accept the terms of this limited warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations and exclusions may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

How to make a Warranty Claim

1. Gather the following information:
 - Date of purchase
 - Who product was purchased from
 - Date of installation, if installed
 - Names and phone numbers of electrician/installer
 - Completed resistance recording page from installation
 - Serial number from product label
2. Contact Heatizon Systems for a Return Materials Authorization number, and information on the next required steps to complete your warranty claim.



Mail: Heatizon Systems
4137 South 500 West
Murray, UT 84123
USA

Phone: (801) 293-1232

Toll Free: (888) 239-1232

Fax: (801) 293-3077

Email: info@heatizon.com

Website: www.heatizon.com

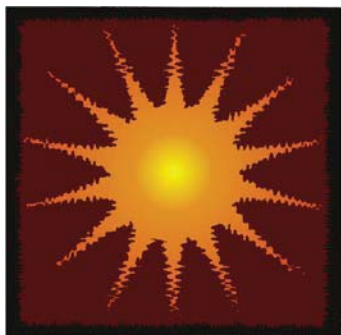
POWER PLANT SUPPLY CO CANADA STOCKING DISTRIBUTORS
CALL 902 435 9899 - 416 752 3339 <mailto:atlantic@powerplantsupplyco.com>
<http://powerradiantfloorheat.com/guttericemelting.html>

Power Plant Supply Co has convenient shipping warehouse locations in Canada, to serve customers in Ontario, ON, Quebec, QC, Atlantic Canada, including New Brunswick, NB, PEI, Nova Scotia, NS, Newfoundland & Labrador, NL, British Columbia, BC, Alberta, AB, Manitoba, Man, Saskatchewan, SK, Nunavut, Northwest Territories, NWT, Yukon. Next day Air or convenient ground to major cities including Vancouver, Calgary, Edmonton, Fort McMurray, Winnipeg, Yellowknife, Thunder Bay, Hamilton, Toronto, Ottawa, Montreal, Quebec City, Saint John, Moncton, Fredericton, Charlottetown, Halifax, Sydney, Corner Brook, St John's

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