

Engineering Specifications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

ProMelt™ Cable

Electric Snow and Ice Melt Cable

ProMelt Cable consist of a series resistance heating cable and a single power lead for easy single-point connection. The heating mat length cannot be cut to fit.

Specifications	
Supply Voltage	120V, 1-phase 208V, 1-phase 240V, 1-phase 277V, 1-phase
Maximum Heater Current	24 Amps
Maximum Circuit Load*	50 Amps
Wire Spacing	3" 4"

* Ground fault equipment protection is required for each circuit.

Heating Density				
	120V	208V	240V	277V
3" Wire Spacing	50 W/sf 170 BTU/h/sf			
4" Wire Spacing	38 W/sf 130 BTU/h/sf			

Application

ProMelt Cables are used to melt ice or snow from an exterior surface and are designed for outdoor use only, embedded in concrete, asphalt, or sand.

Application Parameters	
Min. Bend Radius	1 inch
Max. Exposure Temperature (continuous and storage)	221°F (105°C)
Max. Exposure Temperature (short-term for asphalt covering)	285°F (140°C)
Min. Installation Temperature	40°F (4.5°C)

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

SunTouch product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact SunTouch Technical Service. SunTouch reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on SunTouch products previously or subsequently sold. Refer to the owner's manual for warranty information.



ProMelt Cables are available in various lengths with voltage options of 120, 208, 240, and 277 volts.

Installation Parameters

NOTICE

Determine a time to install the cable when equipment, heavy tools, and site traffic will be minimal. Apply the surfacing courses over the cable the same day the cable is installed.

If installing cable in the upper layer of a two-stage concrete slab or the upper layer of an asphalt application, the cable should be completely ready for the second stage. There is limited time between stages, as the slab should not be allowed to fully cure or the asphalt to completely cool. Therefore, lay out the cable and tie it to rewire that can be quickly lifted into place after the first stage is laid.

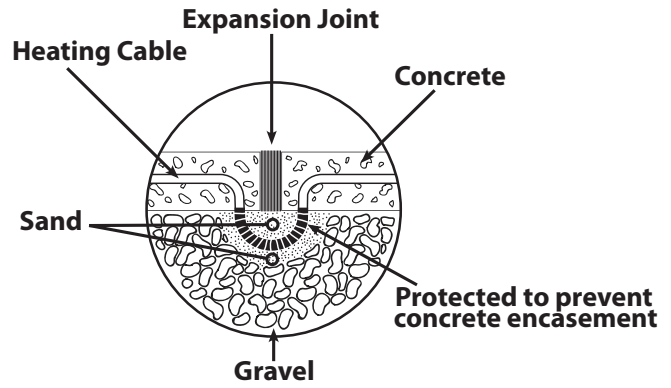
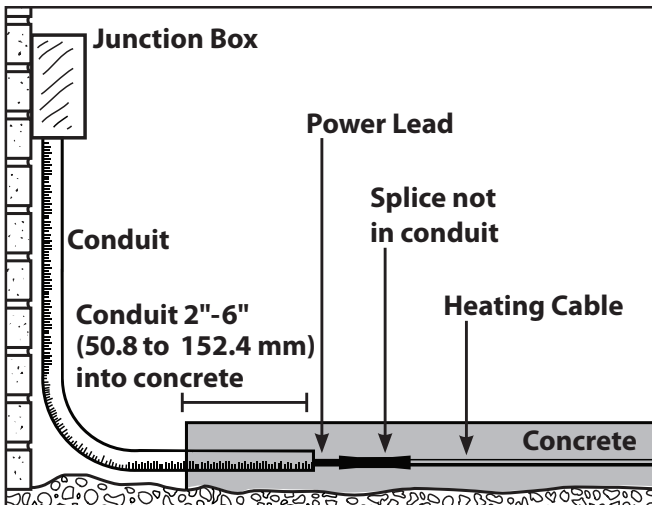
If a slab sensor is installed in this second layer, plan ahead so this does not cause the first layer to cure or cool too much. Inspect the area and remove any sharp objects. Install in temperatures at least 40°F (4.5°C).

WARNING

IN ORDER TO AVOID PROPERTY DAMAGE, INJURY AND/OR DEATH PLEASE REFER TO THE COMPLETE INSTALLATION MANUAL AND WARNINGS PROVIDED WITH THE PRODUCT.



UL Listed for U.S. and Canada under UL 515, IEEE 515.1, and CSA C22.2 No. 130-03.
Listing file number E483414



ProMelt must be embedded in a sand bed when transitioning out of the concrete slab.

ProMelt electrical leads transition from the slab to the control or electrical junction box via conduit.

120 VAC

Model No.	50 W/sqft 3" Spacing (Sq Feet)	38 W/sqft 4" Spacing (Sq Feet)	Cable Length (Feet)	Amp Draw	Ohms
SC50120008	8	10	29	3.3	31-39
SC50120015	15	20	59	6.3	15-19
SC50120020	20	26	78	8.3	13-17
SC50120030	30	39	118	12.5	7-9
SC50120040	40	53	158	16.7	5-7
SC50120053	53	69	208	22.1	4-6

208 VAC

Model No.	50 W/sqft 3" Spacing (Sq Feet)	38 W/sqft 4" Spacing (Sq Feet)	Cable Length (Feet)	Amp Draw	Ohms
SC50208014	14	19	55	3.4	60-74
SC50208020	20	26	78	4.8	36-46
SC50208030	30	39	118	7.2	30-38
SC50208035	35	46	138	8.4	23-29
SC50208040	40	53	158	9.6	18-23
SC50208055	55	72	218	13.2	13-17
SC50208060	60	79	238	14.4	11-15
SC50208065	65	85	257	15.6	10-13
SC50208075	75	98	297	18.0	9-12
SC50208080	80	105	317	19.2	8-11
SC50208090	90	118	357	21.6	7-9

240 VAC

Model No.	50 W/sqft 3" Spacing (Sq Feet)	38 W/sqft 4" Spacing (Sq Feet)	Cable Length (Feet)	Amp Draw	Ohms
SC50240015	15	20	59	3.1	64-79
SC50240025	25	33	98	5.2	46-57
SC50240030	30	39	118	6.3	30-38
SC50240040	40	53	158	8.3	26-33
SC50240045	45	59	178	9.4	20-25
SC50240055	55	72	218	11.5	18-23
SC50240060	60	79	238	12.5	14-18
SC50240065	65	85	257	13.5	12-16
SC50240075	75	98	297	15.6	11-15
SC50240080	80	105	317	16.7	10-13
SC50240090	90	118	357	18.8	9-12
SC50240105	105	137	417	21.9	8-11

277 VAC

Model No.	50 W/sqft 3" Spacing (Sq Feet)	38 W/sqft 4" Spacing (Sq Feet)	Cable Length (Feet)	Amp Draw	Ohms
SC50277018	18	24	71	3.2	77-95
SC50277030	30	39	118	5.4	55-68
SC50277035	35	46	138	6.3	36-45
SC50277045	45	59	178	8.1	29-37
SC50277055	55	72	218	9.9	24-31
SC50277060	60	79	238	10.8	19-25
SC50277070	70	92	277	12.6	17-21
SC50277075	75	98	297	13.5	14-18
SC50277080	80	105	317	14.4	12-16
SC50277090	90	118	357	16.2	11-15
SC50277105	105	137	417	19.0	11-14
SC50277115	115	150	456	20.8	9-12



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