



& ASSOCIATES, INC.

heat tracing specialists

SM-B

SNOMELT HEATING CABLE



1. 16 AWG Buss Wires
2. Conductive Core
3. Polyolefin Jacket
4. Tinned Copper Braid
5. TPR Overjacket

Heat Trace



Description

SM-B SnoMelt is a self-regulating heating cable that can be used for snow melting and ice prevention of surfaces such as concrete roads, ramps, driveways and paths. It may also be used on stairways, walkway gratings or loading docks. It can be cut-to-length in the field and exact lengths can be matched without any complicated design considerations. The power output regulates itself in response to surface temperature. SM-B cable cannot overheat and tends to reduce power when not needed. SM-B is ideally suited for most general snow and ice prevention applications and is not bound to various mat sizes. Installations can be combined with TAD & Associates' specially developed high energy efficient control systems that can apply full power for melting and a reduced lower output for ice prevention. The SnoMelt/Powermatch Micro+ controlled system can reduce operating costs by as much as 80% when compared with conventionally controlled snow melting and ice prevention systems.

Applications

SM-B is used expressly for snow-melting and de-icing applications. It can achieve a maximum surface temperature of 104°F. The minimum installation temperature for SM-B cable is -22°F.

Approvals

Factory Mutual:

Ordinary locations
Type C and D installations
Snow-Melting/De-Icing



The SM-B system (BPS2, BES2, BES3 and HES3)

Note: For heater cable applications refer to National Electric Code Article 427
Fixed electric heating for pipelines and vessels.

TAD & Associates, Inc.
P.O. Box 2170
Canyon Lake, Texas 78133

Phone: 830.964.4435
Fax: 830.964.4441
<http://www.tad-associates.com>

Ordering Information

Example Configuration		SM2-B	
SM	Voltage	Jacket (inches) +/-0.5	Weight/1,000'
	2=208V-277V	B=Rubber Jacket (.60" x .256")	127 Lbs.
	3=347V	A=Aluminum Jacket (.59" x .24")	122 Lbs.

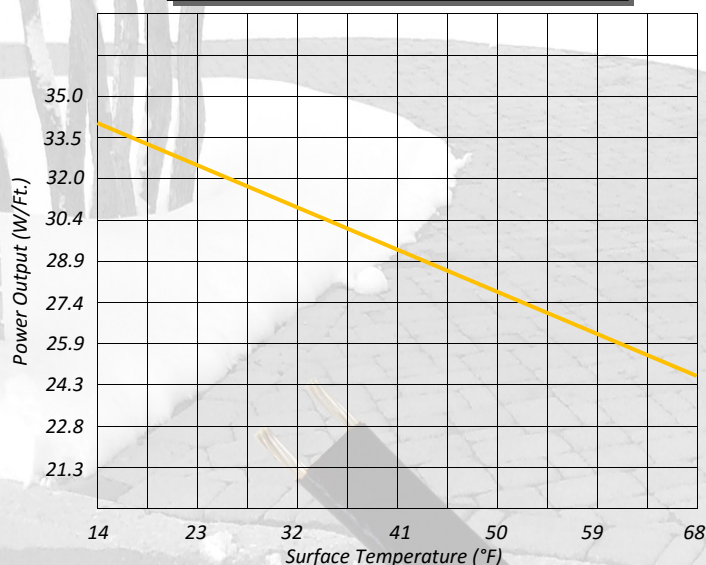
SMA replaces braid and overjacket with extruded aluminum, offering greater mechanical protection when required. Verify with local codes for use in concrete.

Accessories

SMB-TK	Termination Kit for SM-B
SMB-SK	Splice Kit for SM-B
CT-1	Cable Ties (50/Pack)
RPC-SM	Power Connection Kit for SM
RTC-SM	Multi-Entry Kit for SM
AIC-4	Snow Melting Control 10A
RSD4.5	Snow Melting Control 35A

Note: Not all accessories are listed. See catalog for additional listings.

Thermal Output Ratings



The following graph indicates the cable performance when buried in concrete. For other conditions, refer to the Factors Table shown below.



To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with **National Electric Code (NEC) Article 427.22** requirements, agency certifications, and local codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Ground fault protection is the responsibility of the end user and should be installed by a certified electrician.

Output at Alternate Voltages

Typical Heaters	208 VAC	240 VAC	277 VAC
SM2-B	26.88 (88)	28.65 (94)	29.58 (97)

Note: Output changes with applied voltage. (W/m)

Circuit Length vs. Breaker Sizing

Service Voltage	38°F (3°C) Start-Up (Ft.)			
	15A	20A	30A*	40A*
208VAC	90 (27)	120 (36)	180 (54)	240 (73)
240VAC	100 (30)	130 (39)	200 (61)	260 (79)
277VAC	110 (33)	145 (44)	220 (67)	290 (88)

Note: Breaker not to exceed 50A. * In order to achieve circuit length both cable ends **MUST** be powered. For single power point refer to 20A circuit length. (meters)

Output Multiplying Factor

For Burial In:	Power Output Multiplying Factor
Sand (Wet)	W/Ft. in concrete x 0.9
Metal Conduit	W/Ft. in concrete x 0.4