TRANS-HEAT, LLC.

heat tracing specialists

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Romans 10:11 For whosoever believes on Him shall not be ashamed.

SM-B
SNOW MELT SELF-REGULATING

Heat Trace

1. 16 AWG Buss Wires
2. Conductive Core
3. Polyolefin Jacket
4. Tinned Copper Braid
5. 24 mil Overjacket

◄ FM ► CE

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, which simplifies design. Aside from MI cable, it's industrial grade design is far superior to all other forms & brands on the open market. It's super thick jacket provides superior protection against accidents that can occur on job sites during installation. It also protects the cable from aggressive drying components found in certain concrete mixes. SM-B is safer and easier to install than hydronic systems and provides years of reliable, maintenance free service at a fraction of the cost. Various snow melting controls are available to suit operational flexibility, residential/commercial electrical needs, simplicity, and energy efficiency.

APPLICATIONS

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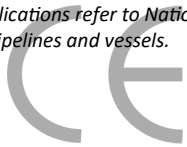
The minimum installation temperature for SM-B cable is −22°F.

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

◄ FM ►

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.
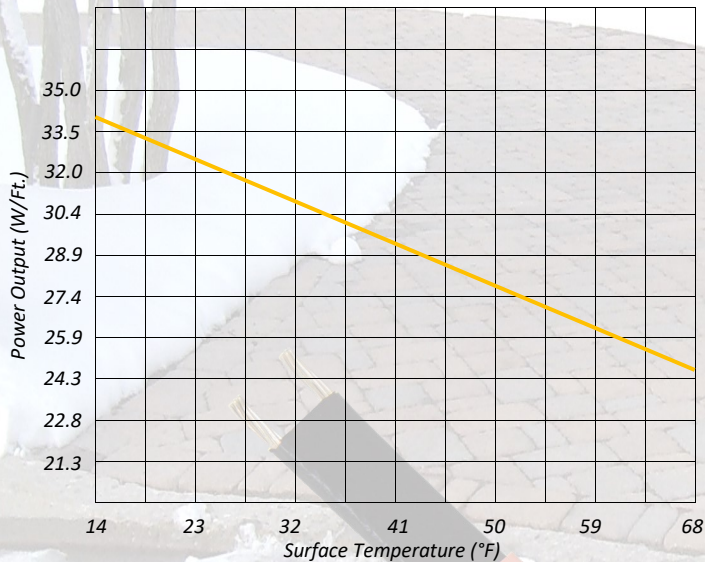
CE

Example Configuration		**SM2-B**		
SM	Voltage	Jacket	Weight/1000'	Dimensions
	2=208V-277V	B=Rubber Jacket	127 Lbs.	.600" x .256"
	3=347V	A=Aluminum Jacket	122 Lbs.	.590" x .240"

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

UTK555	Termination Kit
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
GF-PRO	Snow Melting Control
SIT-6E	Pavement Sensor

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

⚠️ *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.*

💡 *It is highly recommended that all heat trace systems be connected to a control device to limit inrush potential and circuit breaker issues. Control devices also extend the life of all heat trace systems.*

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

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

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

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)*

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