

PRODUCT DATA SHEET SR HEATING TAPE

Introduction

Hotfoil SR Self-Regulating cut-to-length Heating Tape is an efficient, reliable means of freeze protection for pipes, tanks, vessels, etc.

This robust heating tape has found full acceptance in all industrial segments. The heating tape carries **FM, UL** and **CSA** Approvals for Indoor / Outdoor / Hazardous and Non-Hazardous environments. For applications in hazardous (explosive) areas, consultation with Hotfoil is needed to ensure compliance with all requirements.

Construction Details

Provide reliable electrical.....
current capability.

Twin 16 AWG Copper Bus Wires

"Self Regulating" component of the cable, its.....
electrical resistance varies with temperature.
As process temperature drops, the core's heat
output increases; as process temperature rises,
the heat output decreases.

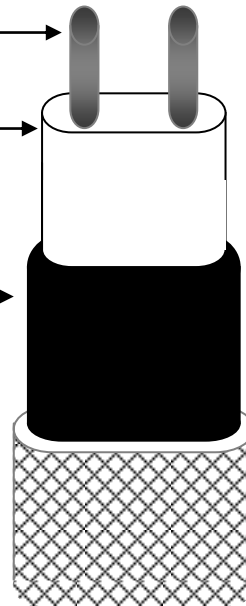
Semiconductive Polymer Core Matrix

Flame retardant, electrically insulates the matrix.....
and buss wires and provides resistance to water
and some inorganic chemical solutions.

Water Resistant Polyolefin Jacket

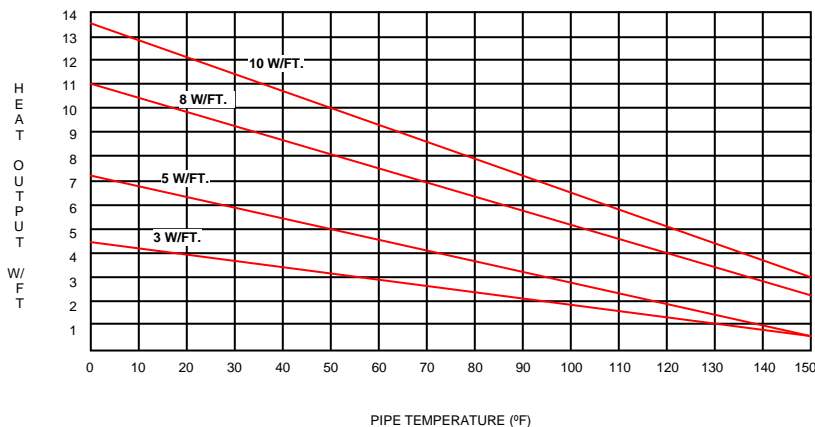
Provides additional mechanical protection in any.....
environment and a positive ground path. Complies
with NEC 427.23.

Tinned Copper Braid



- * 16AWG Buss Wires
- * Energy Efficient
- * Maintain Temperatures 150°F
- * Exposure Temperature up to 185°F
- * Full Line of Accessories
- * Can be Overlapped
- * Self Regulating
- * Cut to Length
- * Long Circuit Lengths
- * 5 & 8 Watts per Foot
- * 120volt
- * 208-277volt

Thermal Output Ratings on Insulated Metal Pipe



As the heating tape or surrounding area temperature increases, the output of the heating tape decreases for energy efficiency.

Conversely, as the temperature decreases the heating tape output increases.

For non-metallic pipe installations, consult Hotfoil.

Standard Product Range

Determine Circuits / Circuit Protection

Circuit protection depends on the breaker size being used and the start-up temperature. The National Electric Code (NEC) requires the use of ground fault protection breakers for heating cable. The following chart shows the maximum circuit length for a given breaker rating.

Catalog Reference	Nominal Output (W/Ft.)	Operating Voltage	Maximum Circuit Length 50°F Start-Up (ft.)							Maximum Circuit Length 0°F Start-Up (Ft.)						Maximum Circuit Length -20°F Start-Up (Ft.)					
			10A	15A	20A	25A	30A	40A	10A	15A	20A	25A	30A	40A	10A	15A	20A	25A	30A	40A	
Circuit Breaker			10A	15A	20A	25A	30A	40A	10A	15A	20A	25A	30A	40A	10A	15A	20A	25A	30A	40A	
SRL3-1C	3.0	120	205	305	360	NR	NR	NR	135	200	270	330	360	NR	120	185	245	300	360	NR	
SRL3-2C	3.0	240	400	600	660	NR	NR	NR	275	415	555	660	NR	NR	245	370	495	600	660	NR	
SRL5-1C	5.0	120	125	185	250	270	NR	NR	90	135	180	225	270	NR	80	120	160	205	245	270	
SRL5-2C	5.0	240	250	375	505	540	NR	NR	180	270	360	450	540	NR	160	245	325	405	490	540	
SRL8-1C	8.0	120	100	150	200	215	NR	NR	70	110	145	180	215	NR	65	100	130	165	200	210	
SRL8-2C	8.0	240	185	285	375	420	NR	NR	135	200	265	335	395	420	120	175	235	300	350	420	
SRL10-1C	10.0	120	60	95	130	160	180	NR	50	80	105	130	155	180	45	70	95	120	140	180	
SRL10-2C	10.0	240	100	160	210	260	315	360	80	125	170	210	255	340	75	120	160	195	240	320	

NR = Not Required. Maximum circuit length has been reached in a smaller breaker size.

The SR heating tape can be used on other voltages i.e. 110V/115V/120V or 277V/220V/208V with the resultant change in watts. For applications other than 120V or 240V, please consult Hotfoil.

Components

PTK – Power Connection Kit

SK – Splice Kit

TU – Tee Splice Kit

JBPC – Junction Box for Power Termination

AAT – Adhesive Aluminum Tape, 2" x 50yds.

AGT - Adhesive Fiberglass Tape, 3/4" x 36yds.

CL – Caution Labels (Pack of 5)

All heating systems must be adequately and correctly temperature controlled. Hotfoil will recommend a method for each application relative to the on-site conditions

Ordering Information

SRL - X - XC → Tinned Copper Braid (NEC 427.23)

↓	↓
Output	Voltage
3 = 3w/ft.	1 = 120v
5 = 5w/ft.	2 = 240v
8 = 8w/ft.	

E.G.:

SRL-5-1C = 5w/ft., 120volt with Tinned Copper Braid

All SRL tape is supplied standard with tinned copper braiding.

Other Applications

- Preheating of Pipes and Vessels
- Heating of Vacuum Components in High Energy Physics
- Low Melting Point Metals
- Asphalt Plants
- Electrostatic Precipitators
- Tanks
- Temperature Maintenance
- Reactors
- Chemical Vessels
- Bitumen Pots
- Baghouses
- Etc.

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