

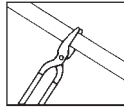
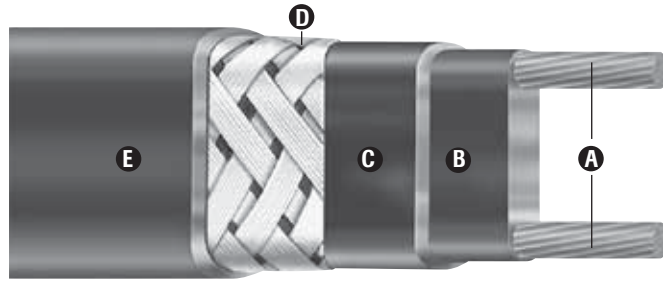
# Heating Cable

## SRP

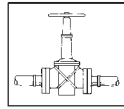
### Self-Regulating Process Temperatures

- Self-Regulating, Energy Efficient
- 16 AWG Buss Wire
- Circuit Lengths to 750 ft.
- Process Temperature Maintenance to 230°F (110°C)
- Maximum Continuous Exposure Temperature, Power Off, 275°F (135°C)
- Available in 5, 10, and 15 Watts per Foot
- 120 and 208-277 Volts Available From Stock
- Industrial Process Maintenance Applications
- Approximate Size 3/8"W x 1/8"H
- Min. Bend Radius 1-1/8"
- For use on Metallic Pipes Only

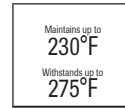
**WARNING** — A ground fault protection device is required by NEC to minimize the danger of fire if the heating cable is damaged or improperly installed. A minimum trip level of 30mA is recommended to minimize nuisance tripping.



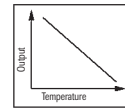
Cut to Length  
in Field



Can be Single  
Overlapped



Maintains up to  
230°F  
Withstands up to  
275°F  
Low Tempera-  
ture



Self Regulating  
Output

### Description

Chromalox SRP self-regulating heating cable provides safe, reliable heat tracing for process maintenance applications to 230°F (110°C) or freeze protection of pipes / tank with high heat losses. Constructed of industrial grade 16 AWG buss wire with a tinned copper braid and optional overjacketing, SRP ensures operating integrity most hostile industrial environments.

### Features

- Energy efficient, self-regulating SRP uses less energy when less heat is required.
- Easy to install, SRP can be cut to any length (up to max circuit length) in the field.
- SRP features lower installed cost than steam tracing, less maintenance expense and less down time.
- SRP can be single overlapped without burn-out, which simplifies heat tracing of in-line process equipment such as valves, elbows and pumps.
- Because SRP is self-regulating, overtemperature conditions are minimized.
- Chromalox U-Series Connection Kits reduce installation time.

### Construction

- A Twin 16 AWG Copper Buss Wires** – Provide reliable electric current capability.
- B Semiconductive Polymer Core Matrix** “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.
- C Fluoropolymer Jacket** – Flame retardant, electrically insulates the matrix and buss wires and provides corrosion resistance.
- D Tinned Copper Braid** – Provides additional mechanical protection in any environment and a positive ground path.
- E High Temperature Fluoropolymer Overjacket** – Corrosion resistant, flame retardant overjacket is highly effective in many environments. Protects against exposure to organic or corrosive solutions. The overjacket also protects against abrasion and impact damage.

### Approvals

CSA Certified

Class I, Division 2, Groups B, C, D  
Class II, Division 2, Groups F, G  
Class III

FM Approved

Class I, Division 2, Groups B, C, D  
Class II, Division 2, Groups F, G  
Class III

UL Recognized Component  
AWM Style 20565

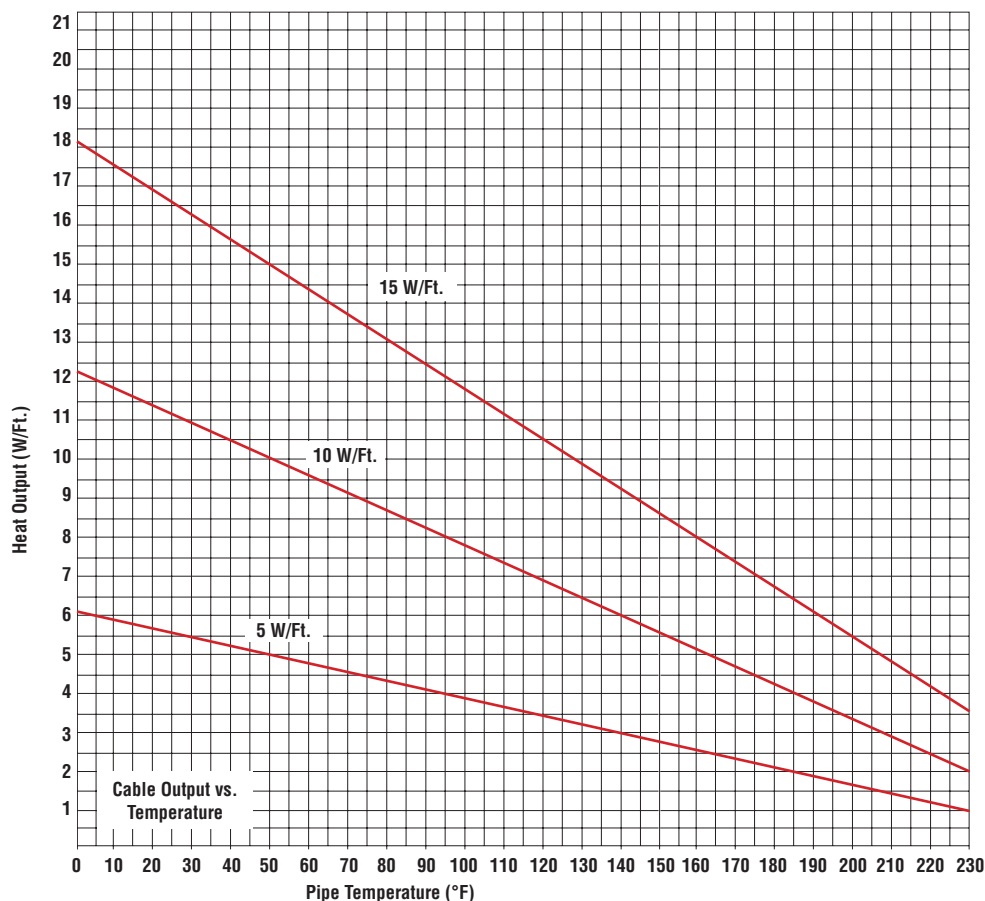
Rated T4

SELF-REGULATING

# Heating Cable

## SRP Self-Regulating Process Temperatures (cont'd.)

### Thermal Output Ratings on Insulated Metal Pipes



**Note 1** — Thermal output is determined per IEEE 515-2004 Standard for testing, design, installation and maintenance of electrical resistance heat tracing section 4.1.11 Method C.

### Output Wattage at Alternate Voltages (W/Ft.)

Model	208V	% Change In Output	220V	% Change In Output	277V	% Change In Output
SRP 5	3.85	-20	4.25	-13	6.45	+15
SRP 10	8.3	-18	8.80	-10	12.50	+13
SRP 15	12.75	-14	13.50	-9	18.45	+12

### Circuit Breaker Selection (Max. Circuit Lengths in Ft.)

Cable Rating	50°F Start-Up (Ft.)					0°F Start-Up (Ft.)					-20°F Start-Up (Ft.)				
	15A	20A	30A	40A	50A	15A	20A	30A	40A	50A	15A	20A	30A	40A	50A
SRP5-1CT	145	195	295	390	490	110	145	215	295	360	70	90	135	180	225
SRP5-2CT	295	385	580	750	750	220	290	430	580	720	135	180	270	360	450
SRP10-1CT	100	135	200	270	330	70	95	145	190	240	65	85	130	175	215
SRP10-2CT	200	270	400	530	665	145	190	290	380	480	130	175	260	350	440
SRP15-1CT	75	100	150	200	250	60	80	120	160	200	55	70	110	145	180
SRP15-2CT	150	195	295	390	500	120	160	235	320	400	110	145	220	290	360

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

# Heating Cable

## SRP Self-Regulating Process Temperatures (cont'd.)

### Ordering Information

Output (W/Ft.)	Volts	Model	Stock	PCN	Wt./1000' (Lbs.)
<b>Output at Rated Voltage</b>					
5 @ 50°F	120	SRP 5-1C	S	387161	68
		SRP 5-1CT	S	387188	80
	208 - 277	SRP 5-2 C	S	387217	68
		SRP 5-2CT	S	387225	80
10 @ 50°F	120	SRP 10-1C	S	387102	68
		SRP 10-1CT	S	387129	80
	208 - 277	SRP 10-2C	S	387170	68
		SRP 10-2CT	S	387196	80
15 @ 50°F	120	SRP 15-1C	S	387065	68
		SRP 15-1CT	S	387073	80
	208 - 277	SRP 15-2C	S	387110	68
		SRP 15-2CT	S	387137	80

**To Order** – Specify length, model, PCN and installation accessories.

### Accessories

Accessories		DL Series	U Series
Power Connection	Heat trace to electrical service connection	RTPC	UPC
T- Splice	Electrical connection for 3 segments	RTST	UMC
In-Line Splice	Electrical connection for 2 segments	RTST	UMC
End Seal	For terminating cable	RTES	UES
Thermostat	Ambient air sensing thermostat	RTAS	UAS
	Line sensing mechanical thermostat	RTBC	UBC

**To Order** – For general application & installation accessories such as tape, pipe straps, warning labels, etc. refer the to the DL & EL General Application Accessories page at the end of this section.

### Ordering Information

**To Order** —  
Complete the  
Model Number  
using the Matrix  
provided.

Model	Hazardous Location Self-Regulating Process Temperature			
SRP	<b>Code</b>	<b>Output (W/Ft.)</b>		
	5	Five		
	10	Ten		
	15	Fifteen		
	<b>Code</b>	<b>Voltage</b>		
	1	120		
	2	240		
	<b>Code</b>	<b>Construction</b>		
	C	Braid Only		
	CT	Standard braid and overjacket		
SRP	5	1	CT	Typical Model Number

SELF-REGULATING