

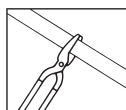
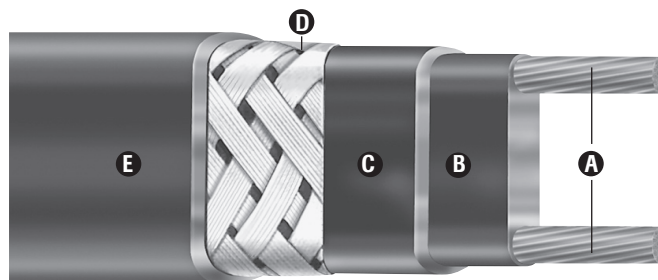
## SRP Self-Regulating Process Temperatures

- 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 .47"W x .20"H
- Min. Bend Radius 1-1/8"
- For use on Metallic Pipes
- Consult Factory for use on Plastic Piping

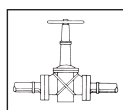
### Description

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 overjacketing, SRP ensures operating integrity most hostile industrial environments.

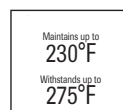
**WARNING** — A ground fault protection device is required by NEC to minimize the danger of fire if the heating cable is damaged or improperly installed. A minimum trip level of 30mA is recommended to minimize nuisance tripping.



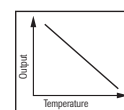
Cut to Length in Field



Can be Single Overlapped



Low Temperature



Self Regulating Output



### 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

Factory Mutual (FM) approved for ordinary areas. FM, ATEX and IECEx approved for hazardous (classified) areas when used with U Series and DL accessories

#### FM Approved:

- Class I, Division 2, Groups B, C, D (Gases, vapors)
- Class II, Division 2 Groups F, G (Combustible dust)
- Class III, Division 2 (Easily ignitable fibers and fillings)
- Class I, Zone 1, AEx e II
- 3,5,8 and 10 Watt Rated T4 Temperature Class

#### ATEX Approved:

- CE 1725 IIG Ex e IIC T4 Gb Ta -40°C to 70°C

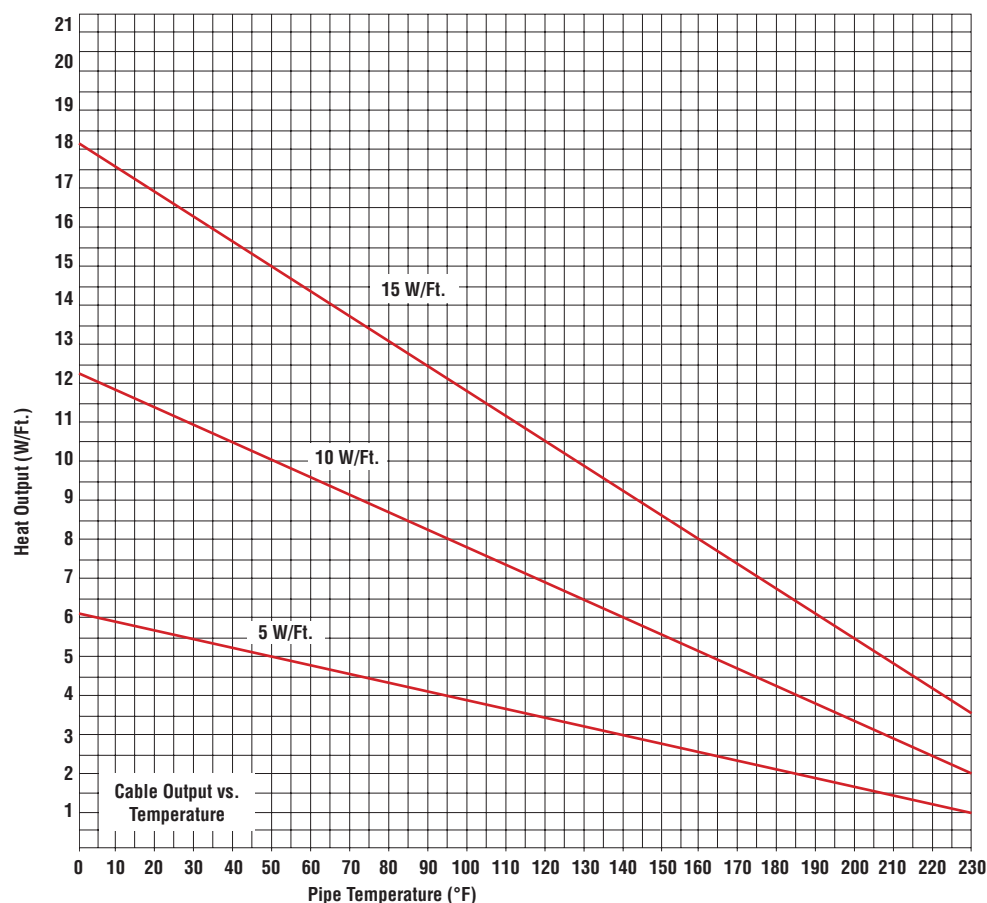
#### IECEx Approved:

- FMG 17.0015x Ex e IIC T4 Gb Ta -40°C to 70°C

## SRP

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

#### Thermal Output Ratings on Insulated Metal Pipes



**Note 1** — Thermal output is determined per IEEE 515-2011 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
SRP5-1	145	195	295	390	490	110	145	215	295	360	70	90	135	180	225
SRP5-2	295	385	580	750	750	220	290	430	580	720	135	180	270	360	450
SRP10-1	100	135	200	270	330	70	95	145	190	240	65	85	130	175	215
SRP10-2	200	270	400	530	665	145	190	290	380	480	130	175	260	350	440
SRP15-1	75	100	150	200	250	60	80	120	160	200	55	70	110	145	180
SRP15-2	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	<b>SRP 5-1CT</b>	<b>S</b>	<b>387188</b>	80
	208 - 277	<b>SRP 5-2CT</b>	<b>S</b>	<b>387225</b>	80
10 @ 50°F	120	<b>SRP 10-1CT</b>	<b>S</b>	<b>387129</b>	80
	208 - 277	<b>SRP 10-2CT</b>	<b>S</b>	<b>387196</b>	80
15 @ 50°F	120	<b>SRP 15-1CT</b>	<b>S</b>	<b>387073</b>	80
	208 - 277	<b>SRP 15-2CT</b>	<b>S</b>	<b>387137</b>	80
<b>To Order</b> – 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
Lighted End Seal	For terminating cable	RTST-SL	UESL
Thermostat	Ambient air sensing thermostat	RTAS	UAS
	Line sensing mechanical thermostat	RTBC	UBC
<b>To Order</b> – 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>		
	<b>5</b>		Five		
	<b>10</b>		Ten		
	<b>15</b>		Fifteen		
	<b>Code</b>		<b>Voltage</b>		
	<b>1</b>		120		
	<b>2</b>		240		
	<b>Code</b>		<b>Overjacket Options</b>		
	<b>CT</b>		Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments		
SRP	5	-	1	CT	Typical Model Number

SELF-REGULATING