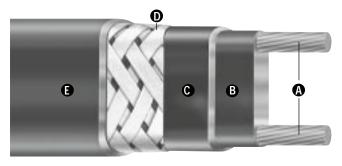
Heating Cable

SRF

Self-Regulating Freeze Protection

- Self-Regulating, Energy Efficient
- Designed for Freeze Protection
- Max. Exposure Temp. 185°F
- Cost Effective for Contractor/ Construction Applications
- Industrial Grade, 16 AWG Buss Wire
- Standard Braid and Optional Overjacket
- Continuous Exposure Temperature, Power Off, 185°F (85°C)
- Circuit Lengths, Up to 460 Ft.
- 3, 5 and 8 W/Ft.
- 120, 208 277 Volt From Stock











Description

Chromalox SRF cable is ideal for keeping metal and plastic pipes warm in commercial construction, institutional buildings and some industrial freeze protection applications. SRF cable is constructed of a self-regulating polymer core that varies its output along its entire length, saving energy and eliminating hot spots along the pipe. Parallel construction makes it easier to install than zone or series types of cable since it can be cut-to-length at any point on the pipe. It can be single overlapped without overheating the cable.

Features

- Energy efficient, self-regulating SRF uses less energy when less heat is required.
- Easy to install, SRF can be cut to any length (up to max. circuit length) in the field.
- Field splices can be performed easily in minutes with no scrap or wasted cold sections.
- SRF can be single overlapped without burnout, which simplifies heat tracing of in-line process equipment such as valves, elbows and pumps.
- Because SRF is self-regulating, overtemperature conditions are minimized.
- Chromalox termination, splice, tee and end seal kits reduce installation time.

Construction

- Twin 16 AWG Copper Buss Wires Provide high electrical current capability.
- B Semiconductive Polymer Core Matrix its electrical resistance varies with temperature. As process temperature drops, the core's heat output increases; conversely, as process temperature rises, the heat output decreases.
- Polyolefin Jacket Flame retardant, electrically insulates the matrix and buss wires. Also provides resistance to water and some inorganic chemical solutions.
- Tinned Copper Braid The braid covering the jacket provides additional mechanical protection in any environment and a positive ground path.
- High Temperature TPR Overjacket (optional) — The TPR overcoat protects the braid and provides resistance to certain inorganic chemical solutions.

Approvals

UL Listed for ordinary areas.

CSA Certified for ordinary areas.

FM Approved for ordinary areas.

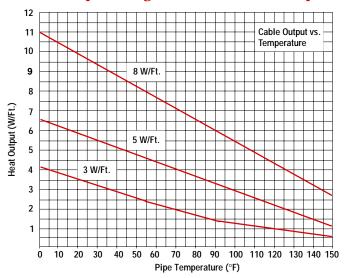
Heating Cable

SRF

Self-Regulating Freeze Protection *(cont'd.)*



Thermal Output Ratings on Uninsulated Metal Pipes¹



Note 1 — Thermal output is determined per IEEE 515-1997 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
SRF 3	2.4	-20	2.6	-13	3.4	+15
SRF 5	4.1	-18	4.5	-10	5.6	+13
SRF 8	6.88	-14	7.28	-9	8.96	+12

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

Cable	40°F Start-Up (Ft.)			0°F Start-Up (Ft.)		
Rating	20A	30A	40A	20A	30A	40A
SRF 3-1C	350	360	NR	270	360	NR
SRF 3-2C	660	NR	NR	555	660	NR
SRF 5-1C	230	270	NR	180	270	NR
SRF 5-2C	450	540	NR	360	540	NR
SRF 8-1C	180	215	NR	145	215	NR
SRF 8-2C	330	420	420	265	395	420

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

Note — Thermal magnetic circuit breakers are recommended since magnetic circuit breakers could "nuisance trip" at low temperature.

Chromalox®

Represented By: Ross & Pethtel Phone: 225-273-2202 Website

Heating Cable

SRF

Self-Regulating Freeze Protection *(cont'd.)*

Ordering Information

Output (W/Ft.)	Volts	Model	Stock	PCN	Wt./1000' (Lbs.)	
Output at Rated V	oltage					
3 @ 50°F	120 208 - 277	SRF 3-1C SRF 3-2C	S	386943 386951	53 53	
5 @ 50°F	120	SRF 5-1C	S	386960	53	
	208 - 277	SRF 5-2C	S	386978	53	
8 @ 50°F	120	SRF 8-1C	S	386986	53	
	208 - 277	SRF 8-2C	S	386994	53	
With Optional Overcoat (CR)						
3 @ 50°F	120	SRF 3-1CR	S	386100	64	
	208 - 277	SRF 3-2CR	S	386118	64	
5 @ 50°F	120	SRF 5-1CR	S	386142	64	
	208 - 277	SRF 5-2CR	S	386150	64	
8 @ 50°F	120	SRF 8-1CR	S	386062	64	
	208 - 277	SRF 8-2CR	S	386070	64	

Accessories

Accessories			EL		
Power Connection	Heat trace to electrical service connection	RTPC	RT-JBC-1		
Splice & Tee		RTST	RT-RST		
End Seal	For terminating cable	RTES	RT-RES		
Thermostat	Ambient air sensing thermostat	RTAS	B-100/B-121		
	Line sensing mechanical thermostat	RTBC	E-100/E-121		
	Line sensing electronic thermostat	RTSS	N/A		
To Order — General Application & Installation Accessories such as tape, pipe straps, warning labels, etc., refer 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	Self-Regulating Medium Temperature				
SRF	Self-Regulating, Freeze Protection Heating Cable				
	Code	ode Output (W/Ft.)			
	3 5 8	Three Five Eight			
		Code	Voltage		
		1 2	120 208 - 277		
			Code	Braid and Overcoat Options	
			С	Standard tinned-copper metallic braid for additional protection and ground path	
			CR 	TPR overjacket over braid for protection against certain inorganic chemical solutions	
SRF	5	1	С	Typical Model Number	