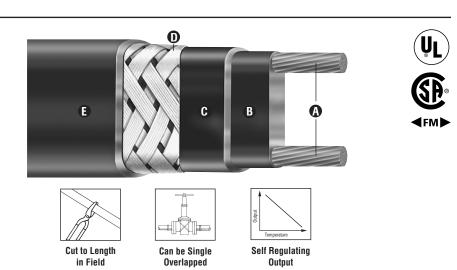
Heating Cable

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.
- 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

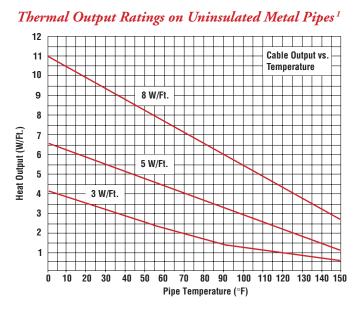
UL Listed for ordinary areas.

- CSA Certified for ordinary areas.
- FM Approved for ordinary areas.

Heating Cable

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





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

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

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



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	SRF 3-1C	S	386943	53
	208 - 277	SRF 3-2C	S	386951	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 Ove	ercoat (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	DL	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
	eral Application & Installation Accessories such as ta s, etc., refer to the DL & EL General Application Acc and of this section.	ape, pipe str essories pa	aps, warning ge at

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	Output (W/Ft.)				
	3 5 8	Three Five Eight				
		Code	Voltage			
		1 2	120 208 - 277	7		
			Code	Braid and Overcoat Options		
			C	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	C	Typical Model Number		