Heat Tracing Sales

Heating Cable

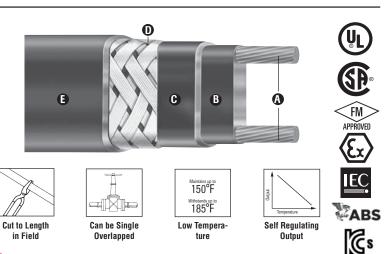
SRL Self-Regulating Low Temperature

- Self-Regulating, Energy Efficient
- 16 AWG Buss Wire
- Circuit Lengths to 660 Feet
- Process Temperature Maintenance to 150°F (65°C)
- Maximum Continuous Exposure Temperature, Power Off, 185°F (85°C)
- Industrial Freeze Protection **Applications**
- Single or Dual Monitor Wires **Available**
- Field Splicing Without **Disrupting Heat Output**
- 3, 5, 8 and 10 W/Ft.
- 120 and 208 277 Volt From Stock
- Approximate Size .47"W x .20"H
- Min. Bend Radius 1-1/8"
- For Use on Metal and Plastic **Pipes**

Description

Chromalox SRL self-regulating heating cable provides safe, reliable heat tracing for freeze protection of pipes, valves, tanks and similar applications. Constructed of industrial grade 16 AWG buss wire with a tinned copper braid and overjacketing, SRL ensures operating integrity in Div. 2 hazardous environments as well as certain corrosive industrial environments. SRL heating cable has a maximum maintenance temperature rating of 150°F (65°C).

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.



Features

- · Energy efficient, self-regulating SRL uses less energy when less heat is required.
- Easy to install, SRL 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.
- · SRL features lower installed cost than steam tracing, less maintenance expense and less downtime.
- · SRL can be single overlapped without burnout, which simplifies heat tracing of in-line process equipment such as valves, elbows and pumps.
- · Because SRL is self-regulating, over-temperature conditions are minimized.
- · Chromalox termination, splice, tee and end seal kits reduce installation time.

Construction

- A Twin 16 AWG Copper Buss Wires Provide reliable electrical 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.
- Polyolefin Jacket Flame retardant, electrically insulates the matrix and buss wires and provides resistance to water and some inorganic chemical solutions.
- Tinned Copper Braid Provides **D** additional mechanical protection in any environment and a positive ground path.

High Temperature Fluoropolymer or TPR Ø Overjacket — Corrosion resistant, flame retardant overjacket is highly effective in many environments. TPR coatings protect against certain inorganic chemical solutions. Fluoropolymer coatings are used for exposure to organic or corrosive solutions. These coatings also protect against abrasion and impact damage.

Approvals

Factory Mutual (FM) Approved, UL Listed, and CSA certified for ordinary areas. ATEX, IECEX, FM, and CSA Approved for hazardous (classified) areas when used with U Series, HL, DL, and EL accessories.

CSA and FM Approved:

- Class I, Div. 1* & 2 Groups A*, B, C, D (gases, vapors)
- Class II, Div. 1*& 2 Groups E*, F, G (combustible dust)
- Class III. Div. 2 (easily ignitable fibers and fillings)
- 3 Watt Rated T6 Temperature Class
- 5 and 8 Watt Rated T5 Temperature Class
- 10 Watt Rated T4A Temperature Class
- *CSA Only
- *-CT overjacket only

ATEX Approved:

• 🕼 CE 0359 IIG Ex e IIC T* Gb Ta -60°C to 195°C

IECEx Approved:

ITS 07.0018X Ex e IIC T5 Gb Ta -60°C to 95°C

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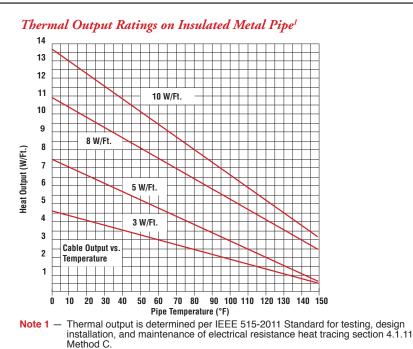
G-10

Heating Cable

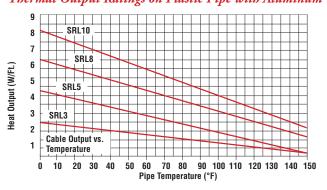
SRL

Self-Regulating Low Temperature *(cont'd.)*





Thermal Output Ratings on Plastic Pipe with Aluminum Tape



Output Wattage at Alternate Voltages (W/Ft.)

Model	208V	% Change In Output	220V	% Change In Output	277V	% Change In Output	LATING
SRL 3	2.4	-20	2.6	-13	3.4	+15	. D
SRL 5	4.1	-18	4.5	-10	5.6	+13	REGUL
SRL 8	6.88	-14	7.28	-9	8.96	+12	- <u>1</u> 1
SRL 10	8.7	-13	9.2	-8	11.1	+10	SEL

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

Rating 10A 15A 20A 25A 30A 40A 10A 15A 20A 25A 30A SRL3-1 205 305 360 NR NR NR 135 200 270 330 360 NR 125 300 360 SG SG 30A 40A 10A 15A 20A 25A 30A SRL3-2 400 600 660 NR NR NR 275 415 555 660 NR NR 245 370 495 600 660 SRL5-1 125 185 250 270 NR NR NR 180 270 360 450 160 245 325	40/		50°F Start-Up (Ft.) 0°F Start-Up (Ft.) -20°F Start-Up (Ft.)									50°F Start-Up (Ft.)					Cable		
SRL3-2 400 600 660 NR NR NR 275 415 555 660 NR NR 245 370 495 600 660 SRL5-1 125 185 250 270 NR NR 90 135 180 225 270 NR 80 120 160 205 245 SRL5-2 250 375 505 540 NR NR 180 270 360 450 540 NR 160 205 245 SRL8-1 100 150 200 215 NR NR 70 110 145 180 215 NR 65 100 130 165 200	40/	30A	25A	20A	15A	10A	40A	30A	25A	20A	15A	10A	40A	30A	25A	20A	15A	10A	
SRL5-2 250 375 505 540 NR NR 180 270 360 450 540 NR 160 245 325 405 490 SRL5-2 250 375 505 540 NR NR 180 270 360 450 540 NR 160 245 325 405 490 SRL8-1 100 150 200 215 NR NR 70 110 145 180 215 NR 65 100 130 165 200	NF NF	360 660																	
	180 320	140 240																	
NR = Not Required. Maximum circuit length has been reached in a smaller breaker size.	NR = N																		
Note - Thermal magnetic circuit breakers are recommended since magnetic circuit breakers could "nuisance trip" at low temperatur																			

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Heating Cable

SRL

Self-Regulating Low Temperature (cont'd.)

Ordering Information

Output (W/Ft.)	Volts	Model	Stock	PCN	Wt./1000' (Lbs.)
	120	SRL 3-1CT SRL 3-1CR	SS	383400 382731	66 64
3 @ 50°F	208 - 277	SRL 3-2CT SRL 3-2CR	SS	383419 382740	66 64
5 @ 50°F	120	SRL 5-1CT SRL 5-1CR	s s	383443 382758	66 64
5 @ 50°F	208 - 277	SRL 5-2CT SRL 5-2CR	s s	383451 382766	66 64
	120	SRL 8-1CT SRL 8-1CR	s s	383460 382598	66 64
8 @ 50°F	208 - 277	SRL 8-2CT SRL 8-2CR	s s	383478 382600	66 64
10 @ 50%5	120	SRL 10-1CT SRL 10-1CR	s s	383486 382846	66 64
10 @ 50°F	208 - 277	SRL 10-2CT SRL 10-2CR	s s	383494 382854	66 64
To Order – S	pecify length, mod	lel, PCN and insta	llation acce	essories.	

Accessories

Accessories U Series DL EL								
Power Connection Heat trace to electrical service connection UPC RTPC SSK								
Splice & Tee UMC RTST RT-RS								
End Seal For terminating cable UES RTES RT-RES								
Lighted End Seal UESL RTST-SL N/A								
Thermostat	Ambient air sensing thermostat	UAS	RTAS	THL/TXL				
Line sensing mechanical thermostat UBC RTBC THR/TXR								
To Order – General Application & Installation Accessories such as tape, pipe straps, warning labels, etc., refer to the U Series, DL & EL General Application Accessories page at the end of this section.								

	Ordering	Model	Self-F	elf-Regulating Low Temperature				
	Information		Self-R	Self-Regulating, Low Temperature Heating Cable				
	To Order —		Code	ode Output (W/Ft.)				
	Complete the Model Number using the Matrix provided.		3 5 8 10	Three Five Eight Ten				
	Contact your Local			Code	Voltag	e		
	Chromalox Sales office for monitor			1 2	120 208 - 1	277		
	wire option.				Code	Overjacket Options		
More Information is Available Online on Heat Trace.					CT CR	Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments TPR overjacket over braid for protection against certain inorganic chemical solutions		
Bookmark Your Browser to <u>www.chromalox.com</u> and Select Manuals.		SRL	5 -	1	CT	Typical Model Number		

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