

# Heating Cable

## SRS

### Self-Regulating Medium Temperature Small Profile

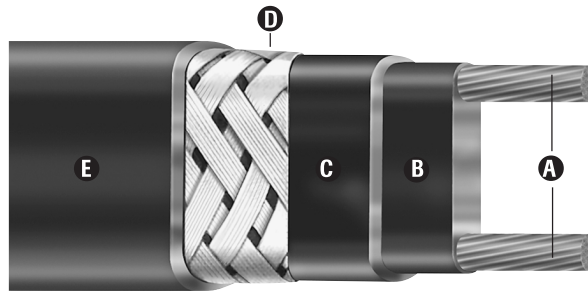
- Self-Regulating, Energy Efficient
- 20 AWG Buss Wire
- Circuit Lengths to 360 Feet
- Process Temperature Maintenance to 302°F (150°C)
- Maximum Continuous Exposure Temperature, Power Off, 420°F (215°C)
- Industrial Process Maintenance Applications
- Min. Bend Radius of 1/4"
- Steam Cleanable on Process Equipment Up to 300 PSIG
- 5, 10, 15 and 20 W/Ft.
- 120 and 208 - 277 Volts

#### Description

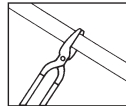
Chromalox SRS self-regulating heating cable provides safe, reliable heat tracing for process temperature maintenance and small diameter (<1") tubing, valves and similar applications. Constructed of industrial grade 20 AWG buss wire with metal braid and optional overjacketing, SRS ensures operating integrity in most hostile industrial environments. The 420°F (215°C) maximum exposure temperature rating allows a wide variety of medium temperature applications.

#### Enhanced Features

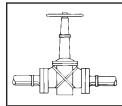
- Industrial Grade, 20 gauge buss wire has higher flexibility, allowing the cable to be used on tight bending radius.
- Superior matrix to buss wire bonding ensures overall operating integrity and performance.
- High output, 20 watts per foot heating cable.



◀ FM ▶



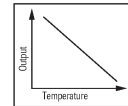
Cut to Length  
in Field



Can be  
Overlapped



Medium  
Temperature



Self Regulating  
Output

#### Features

- Energy efficient, self-regulating SRS uses less energy when less heat is required.
- Easy to install, SRS 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.
- SRS can be single overlapped without burnout, which simplifies heat tracing of in-line process equipment such as valves, elbows and pumps.
- Because SRS is self-regulating, overtemperature conditions are virtually impossible.
- Chromalox termination end seal assemblies reduce installation time.

#### Construction

- A Twin 20 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.
- C High Temperature Fluoropolymer Jacket** — Flame retardant, electrically insulates the matrix and provides corrosion resistance.

- D Metallic Braid** — Provides additional mechanical protection in any environment and a positive ground path.
- E High Temperature Fluoropolymer Overjacket (optional)** — Corrosion resistant, flame retardant overjacket is highly effective in hostile, aqueous and chemically active environments. It also protects against abrasion and impact damage.

#### Approvals

Factory Mutual (FM) Approved for ordinary areas. FM Approved for hazardous (classified) areas when used with DL accessories:

- Class I, Div. 2, Groups B, C, D (gases, vapors)
- Class II, Div. 2, Groups F, G (combustible dust)
- Class III, Div. 2 (easily ignitable fibers and filings)
- 5 Watt Rated T3 Temperature Class
- 10, 15 and 20 Watt Rated T2D Temperature Class

# Heating Cable

## SRS

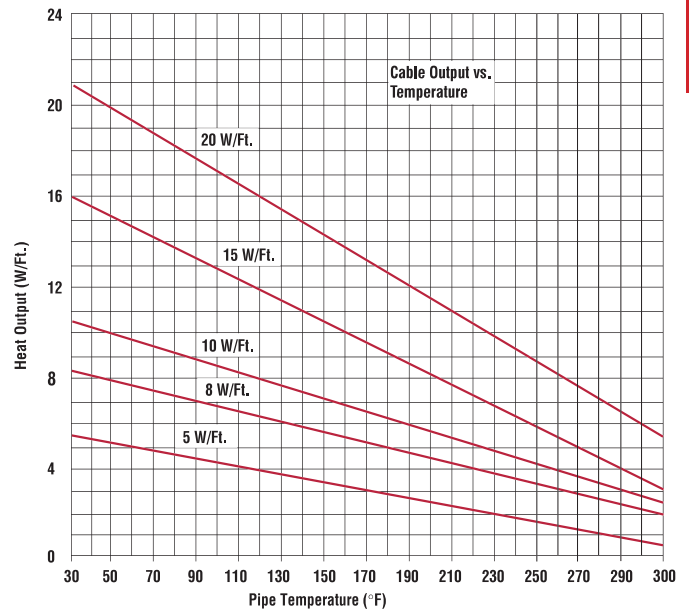
### Self-Regulating Medium Temperature Small Profile (*cont'd.*)

#### Ordering Information

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

Model	Self-Regulating Medium Temperature Small Profile		
SRS	Self-Regulating Medium Temperature Small Profile Heating Cable		
	<b>Code</b>	<b>Output (W/Ft.)</b>	
	5	Five	
	8	Eight	
	10	Ten	
	15	Fifteen	
	20	Twenty	
	<b>Code</b>	<b>Voltage</b>	
	1	120	
	2	208 - 277	
	<b>Code</b>	<b>Braid and Overcoat Options</b>	
	C	Plated-copper metallic braid for additional protection and ground path	
	CT	Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments	
SRS	5	1	CT
Typical Model Number			

#### Thermal Output Ratings on Insulated Metal Pipe<sup>1</sup>



**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.

#### Accessories

Accessories		Model
Power Connection	Heat Trace to electrical service connection	KRT-PC
Splice & Tee	Connects two or three cables together	KRT-STK
End Seal	For terminating cable	KRT-RES
Thermostat	Ambient air sensing thermostat	KRT-AST
	Line sensing thermostat	KRT-LST

**To Order —** General Application & Installation Accessories such as tape, pipe straps, warning labels, etc., refer to the General Application Accessories page at the end of this section.

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

Model	208V	% Change In Output	220V	% Change In Output	277V	% Change In Output
SRS 5	3.85	-23	4.25	-15	6.45	+23
SRS 8	6.4	-20	6.88	-14	10.24	+22
SRS 10	8.3	-17	8.80	-12	12.50	+20
SRS 15	12.75	-15	13.50	-10	18.45	+19
SRS 20	17.6	-12	18.40	-8	24.40	+19

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

Cable Rating	40°F Start-Up (Ft.)			0°F Start-Up (Ft.)			-20°F Start-Up (Ft.)			-40°F Start-Up (Ft.)		
	5A	10A	15A	5A	10A	15A	5A	10A	15A	5A	10A	15A
SRS 5-1	60	120	180	55	110	165	50	100	155	45	90	135
SRS 5-2	120	240	360	110	220	330	100	200	300	90	180	270
SRS 10-1	30	65	95	25	55	85	25	55	80	20	45	70
SRS 10-2	65	130	195	55	110	170	55	110	165	45	90	140
SRS 15-1	25	50	75	20	40	65	20	40	60	18	35	55
SRS 15-2	50	100	150	40	85	130	40	80	120	35	70	110
SRS 20-1	20	40	60	18	35	55	17	35	50	15	30	45
SRS 20-2	40	80	120	35	70	105	35	70	105	30	60	90

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