

SRM/E

Self-Regulating High Temperature

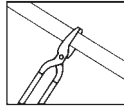
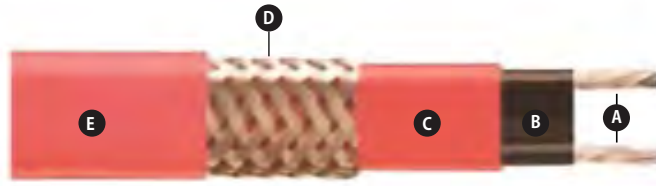
- Self-Regulating, Energy Efficient
- 16 AWG Buss Wire
- Circuit Lengths to 780 Feet
- Process Temperature Maintenance to 302°F (150°C)
- Maximum Continuous Exposure Temperature, Power Off, 420°F (215°C)
- Industrial Freeze Protection Applications
- Freeze Protection of Fire Protection System Piping
- Steam Cleanable on Process Equipment Up to 300 PSIG
- 3, 5, 8, 10, 15 and 20 W/Ft.
- 110 - 120 and 208 - 277 Volt
- Approximate Size 1/2"W x 1/4"H
- Min. Bend Radius 1-1/2"
- For Use on Metallic Pipes Only

Description

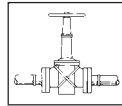
Korea EHT SRM/E Self-Regulating Heating Cable provides safe, reliable heat tracing for process temperature maintenance and freeze protection of pipes, valves, tanks and similar applications. Constructed of industrial grade 16 AWG buss wire with metal braid and optional overjacketing, SRM/E ensures operating integrity in most hostile industrial environments. The 420°F (215°C) maximum exposure temperature rating allows steam cleaning of process equipment with up to 300 psig steam.

Enhanced Features

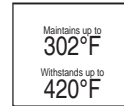
- Industrial Grade, 16 gauge buss wire has higher current capacity.
- Superior matrix to buss wire bonding ensures overall operating integrity and performance.



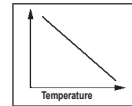
Cut to Length
in Field



Can be Single
Overlapped



High Tempera-
ture



Self Regulating
Output

- High output, 20W/Ft. heating cable.
- All ratings are available from stock.

Features

- Energy efficient, self-regulating SRM/E uses less energy when less heat is required.
- Easy to install, SRM/E 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.
- With lower installed cost than steam tracing SRM/E features less maintenance expense and downtime.
- SRM/E can be overlapped without burnout, which simplifies heat tracing of in-line process equipment such as valves, elbows and pumps.
- Because SRM/E is self-regulating, over-temperature conditions are minimized.
- Korea EHT 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.

- 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 or TPR 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.

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.

Approvals

SRM/E-CT have ATEX / FM / IECEx / CSA / UL / DNV / PTB / KC certification for use in hazardous areas gas and dust.

- 3, 5, 8, 10, 15 and 20 Watt Rated T2...T4 Temperature Class



SRM/E

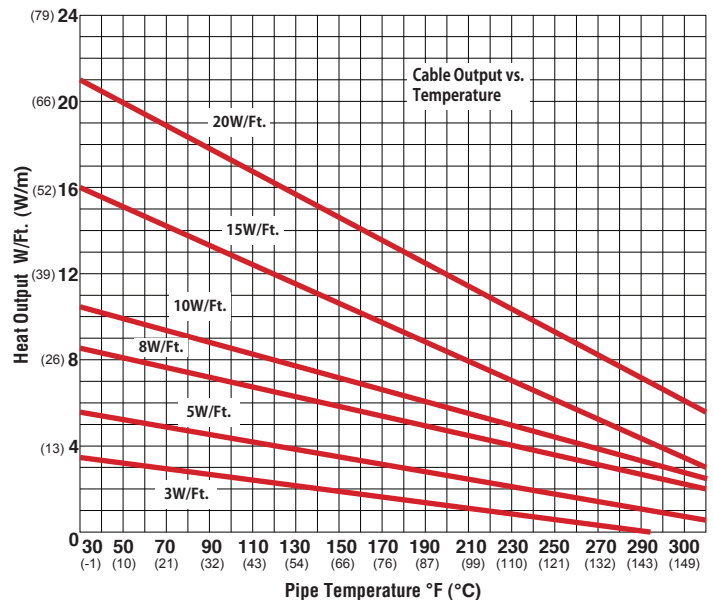
Self-Regulating High Temperature (cont'd.)

Ordering Information

To Order — Complete the Model Number using the Matrix provided. Contact your Local Chromalox Sales office for monitor wire option.

Model	Self-Regulating High Temperature			
SRM/E	Self-Regulating, High Temperature Heating Cable			
	Code	Output (W/Ft.)		
	3	Three		
	5	Five		
	8	Eight		
	10	Ten		
	15	Fifteen		
	20	Twenty		
		Code	Voltage	
		1	110 - 120	
		2	208 - 277	
			Code	Braid and Overcoat Options
			C	Tin-Plated copper metallic braid for additional protection and ground path
			CT	Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments
SRM/E	5	1	C	Typical Model Number

Thermal Output Ratings on Insulated Metal Pipe¹



Note 1 - Thermal output is determined per IEEE 515-2004 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	UPC / KRT-APC
Splice & Tee	Connects two or three cables together	UMC / KRT-STK
End Seal	For terminating cable	UES / KRT-RES
Thermostat	Thermostat	E121 / KRT-NTS
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	240V	277V	%Change In Output
SRM/E3	2.3	-23	2.6	-15	3	3.9	+23
SRM/E5	3.9	-23	4.3	-15	5	6.5	+23
SRM/E8	6.4	-20	6.9	-14	8	10.2	+22
SRM/E10	8.3	-17	8.8	-12	10	12.5	+20
SRM/E15	12.8	-15	13.5	-10	15	18.5	+19
SRM/E20	17.6	-12	18.4	-8	20	24.2	+19

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

Cable Rating	50°F (10°C) Start-Up (Ft.)					0°F (-18°C) Start-Up (Ft.)					-20°F (-29°C) Start-Up (Ft.)				
	15A	20A	30A	40A	50A	15A	20A	30A	40A	50A	15A	20A	30A	40A	50A
SRM/E3-1	285	385	NR	NR	NR	275	375	NR	NR	NR	265	365	385	NR	NR
SRM/E3-2	575	770	780	NR	NR	540	750	780	NR	NR	525	740	780	NR	NR
SRM/E5-1	180	240	360	375	NR	165	220	330	375	NR	155	210	310	375	NR
SRM/E5-2	360	480	720	750	NR	325	430	645	750	NR	310	415	620	750	NR
SRM/E8-1	145	190	285	325	NR	135	175	265	325	NR	130	165	250	325	NR
SRM/E8-2	285	380	575	650	NR	255	345	520	650	NR	245	335	490	650	NR
SRM/E10-1	95	125	190	250	NR	90	110	175	250	NR	85	100	170	245	250
SRM/E10-2	190	255	385	490	NR	165	225	345	490	NR	155	215	330	470	490
SRM/E15-1	70	95	145	190	210	65	85	125	165	210	60	80	120	150	210
SRM/E15-2	145	190	290	385	420	120	175	270	360	420	115	165	260	340	420
SRM/E20-1	60	75	115	155	160	50	65	105	140	160	45	65	100	135	160
SRM/E20-2	115	155	230	305	350	100	135	200	270	350	90	130	195	255	355

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 "unintentionally trip" at low temperature.