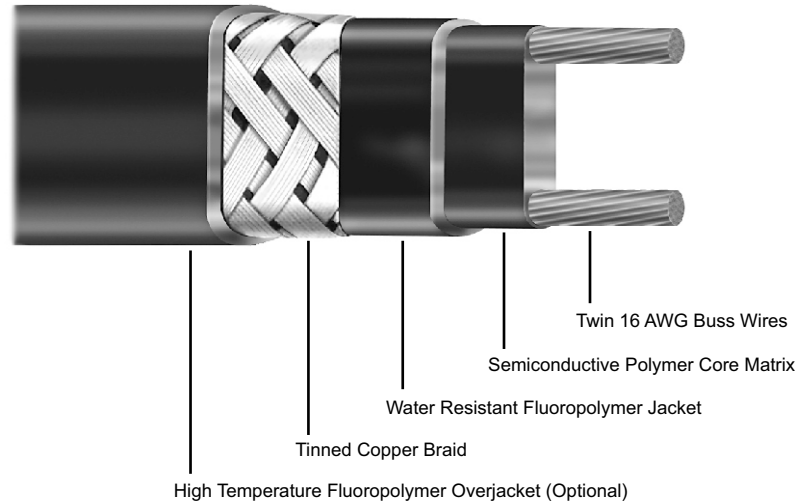
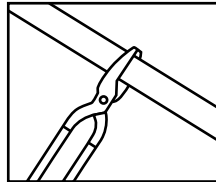


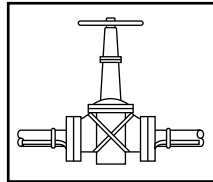
## SRME Self-Regulating High Temperature Heating Cable



- 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 Process Applications
- Industrial Freeze Protection Applications
- Steam Cleanable on Process Equipment Up to 300 PSIG
- 5, 8, 10, 15 and 20 Watts per Foot
- 120 and 208-277 Volts Available From Stock
- For Use on Metallic Pipes Only
- Approximate Size 1/2" x 1/4"
- Minimum Bend Radius is 1-1/2"



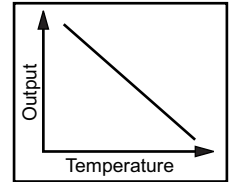
Cut to Any Length in Field



Can be Single Overlapped

Maintains  
302 °F  
Withstands  
420 °F

High Temperature



Self Regulating

### Description:

Trasor SRME 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, SRME 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.

### Features:

- Industrial Grade, 16 gauge buss wire has higher current capacity, allowing longer circuit lengths up to 780 feet.
- Superior matrix to buss wire bonding ensures overall operating integrity and performance.
- High output, 20 W/Ft. heating cable.
- Energy efficient, self-regulating SRME uses less energy when less heat is required.
- Easy to install, SRME can be cut to length in field.
- Field splices can be performed easily in minutes.

- SRME features lower installed cost than steam tracing, less maintenance expense, and less downtime.
- SRME can be single overlapped without burnout.
- Because SRME is self-regulating, overtemperature conditions are virtually impossible.
- Trasor termination, splice, tee and end seal kits reduce installation time.

### Applications:

- Process Temperature Maintenance
- Hydrocarbon and Chemical Product Piping
- Freeze Protection of Periodically Steam-Cleaned Pipes
- Fluid Flow and Viscosity Maintenance



## SRME

### Heating Cable System Design:

**1. Calculate Heat Loss**

Using the Trasor Design Guide (J-123) for Heat Tracing, calculate the heat loss of the system. To calculate the heat loss (Watts/ft) you will need to know the pipe diameter, insulation type and thickness, minimum ambient temperature and the pipe maintenance temperature. Contact factory for design guide or application recommendations.

**2. Select Cable Rating**

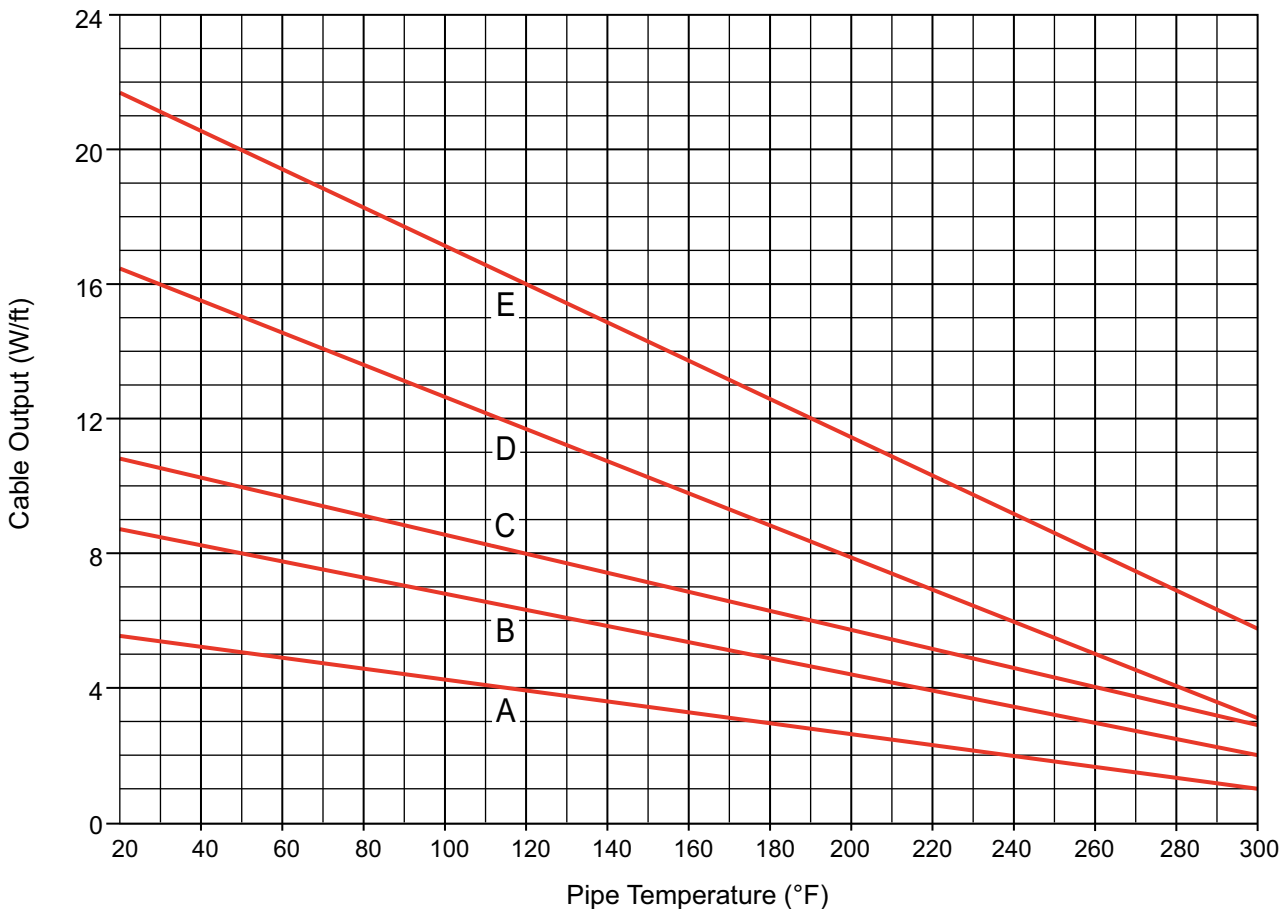
After calculating the heat loss for the pipe and adjusting for any application deviations, you may determine which cable rating to choose. Using the SRME Thermal Output Ratings graph, select the lowest cable rating that will provide the required wattage at the pipe maintenance temperature. Adjust the cable output for line voltage if necessary. See table 2 for cable output at alternative voltages. Example: If the heat loss for a pipe at 150 °F is 8 watts per foot, select curve "D" (SRME15) that will produce 10.5 watts per foot at 150 °F

**3. Determine Total Cable Length**

In addition to the system piping, in-line equipment such as valves, flanges and pipe supports require additional heat tracing to maintain the system operating temperatures. Reference Trasor design guide (J-123).

Total cable length = Total feet of traced pipe + Cable allowance for components

### Thermal Output Ratings On Insulated Metal Pipe:



**Conversions:**

Watts/Meter = Watts/Foot x 3.28  
°C = (°F - 32) / 1.8

Output Curve	W/Ft @50 °F	Model Number
A	5 W/Ft	SRME5
B	8 W/Ft	SRME8
C	10 W/Ft	SRME10
D	15 W/Ft	SRME15
E	20 W/Ft	SRME20

**SRME**
**Circuit Breaker Selection:**

Circuit protection depends on the cable size being used and the start-up temperature. The National Electric Code (NEC 2002) requires the use of ground fault protection breakers for heating cable. A 30 mA trip is recommended to avoid nuisance tripping. The following chart shows the maximum circuit length for a given breaker rating, at different start-up temperatures.

**Table 1**

Watts/Ft.	Start-up Temp.	Maximum Circuit Length (Feet) vs. Breaker Size (Amps)									
		120 Volts					240 Volts				
		15 A	20 A	30 A	40 A	50 A	15 A	20 A	30 A	40 A	50 A
5	50 °F	180	240	360	375	NR	360	480	720	750	NR
	0 °F	165	220	330	375	NR	325	430	645	750	NR
	-20 °F	155	210	310	375	NR	310	415	620	750	NR
8	50 °F	145	190	285	325	NR	285	380	575	650	NR
	0 °F	135	175	265	325	NR	255	345	520	650	NR
	-20 °F	130	165	250	325	NR	245	335	490	650	NR
10	50 °F	95	125	190	250	NR	190	255	385	490	NR
	0 °F	90	110	175	250	NR	165	225	345	490	NR
	-20 °F	85	100	170	245	250	155	215	330	470	NR
15	50 °F	70	95	145	190	210	145	190	290	385	420
	0 °F	65	85	125	165	210	120	175	270	360	420
	-20 °F	60	80	120	150	210	115	165	260	340	420
20	50 °F	60	75	115	155	160	115	155	230	305	350
	0 °F	50	65	105	140	160	100	135	200	270	350
	-20 °F	45	65	100	135	160	90	130	195	255	335

Thermal magnetic circuit breakers are recommended since magnetic breakers could “nuisance trip” at low temperature. NR = Not Required. Maximum circuit length has been reached in a smaller breaker size.

**Cable Specifications and Ratings:**
**Table 2**

Model Number	Operation Voltages (Vac)	Cable Output (W/ft) @ 50 °F					Maximum Circuit Length (ft)	T-Rating
		Standard Voltages		Alt. Voltages (Output Multipliers)				
		120 V	240 V	208 V	220 V	277 V		
SRME5-1C	120	5	-	-	-	-	375	T3
SRME5-2C	208-277	-	5	3.9 (0.77)	4.3 (0.85)	6.5 (1.23)	750	T3
SRME8-1C	120	8	-	-	-	-	325	T3
SRME8-2C	208-277	-	8	6.4 (0.80)	6.9 (0.86)	10.2 (1.22)	650	T3
SRME10-1C	120	10	-	-	-	-	250	T2D
SRME10-2C	208-277	-	10	8.3 (0.83)	8.8 (0.88)	12.5 (1.20)	490	T2D
SRME15-1C	120	15	-	-	-	-	210	T2D
SRME15-2C	208-277	-	15	12.8 (0.85)	13.5 (0.90)	18.5 (1.19)	420	T2D
SRME20-1C	120	20	-	-	-	-	160	T2D
SRME20-2C	208-277	-	20	17.6 (0.88)	18.4 (0.92)	24.4 (1.19)	350	T2D

- ① Use multiplier to adjust cable output from output graph at temperatures other than 50 °F
- ② See Table 1 for maximum circuit lengths by start-up temperature and breaker size.
- ③ T-Rating codes define the maximum surface temperature that the equipment will reach. Used in hazardous areas. Reference National Electric Code.

## SRME

### Ordering Information:

SRME = Self-Regulating, High Temperature Heating Cable

SRME - C

#### Power Rating

- 5 = 5 Watts/foot
- 8 = 8 Watts/foot
- 10 = 10 Watts/foot
- 15 = 15 Watts/foot
- 20 = 20 Watts/foot

#### Voltage Rating

- 1 = 120 V
- 2 = 208-277 V

#### Braid

- C = Tinned-copper metallic braid for ground path. Standard on all cables.

#### Optional Overjackets

- T = Fluoropolymer corrosion resistant overjacket over braid for hostile corrosive environments.

**To Order:** Specify length, model number, and installation accessories.

Example: SRME8-2C, 8 W/ft heating cable @ 240 V with no overjacket.

Cable Weight/1000 Ft. (lbs)	
-C	80
-CT	100

### Accessories:

Trasor has a complete line of accessories specifically designed for use with SRL cable. Use only Trasor accessories to ensure the performance of the heat trace system.

Table 3

Accessory	Part Number	Description
Thermostats	DTS-HAZ	Pipe-sensing thermostat, electronic, Div. 2 hazardous areas
	RTAS	Air-sensing thermostat, mechanical
	RTAS-EP	Air-sensing thermostat, mechanical, Div. 2 hazardous areas, 250 V maximum
	RTBC	Pipe-sensing thermostat, mechanical
	RTBC-EP	Pipe-sensing thermostat, mechanical, Div. 2 hazardous areas, 250 V maximum
Connection Kits	UPC	Power connection kit with stand-off
	UMC	Splice and tee kit with stand-off
	UES	End seal kit with stand-off
	UESL	Lighted end seal kit
	RTPC	Power connection kit
	RTST	Splice and tee kit
Pipe Straps	RTES	End seal kit
	PS-1	Pipe strap to mount power connection box to pipe, 1/2 - 3/4" pipes
	PS-3	Pipe strap to mount power connection box to pipe, 1 - 3" pipes
	PS-6	Pipe strap to mount power connection box to pipe, 3 - 6" pipes
	PS-14	Pipe strap to mount power connection box to pipe, 6 - 14" pipes
Fiberglass Tapes	PS-18	Pipe strap to mount power connection box to pipe, 14 - 18" pipes
	FGT-66-S	Fiberglass tape with silicone adhesive, 66' roll x 1/2". Ideal for freezing installation temperatures and stainless steel pipes.
	FGT-66	Fiberglass tape with rubber adhesive, 66' roll x 1/2"
Aluminum Tapes	FGT-180	Fiberglass tape with rubber adhesive, 180' roll x 3/4"
	HTF-150-3	Aluminum tape to enhance heat transfer, 150 foot roll. Apply over cable along entire length of circuit.
Caution Labels	EHTL-5	"Electric Heat Tracing" caution labels, 5 per package. Install every 20 feet.