

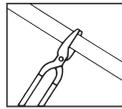
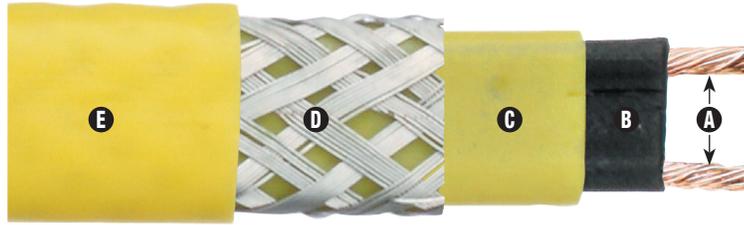
SRP Self-Regulating Process Temperatures

- Self-Regulating, Energy Efficient
- 16 AWG Buss Wire
- Circuit Lengths to 750 ft.
- Process Temperature Maintenance to 230°F (110°C)
- Maximum Continuous Exposure Temperature, Power Off, 275°F (135°C)
- Available in 5, 10 and 15 Watts per Foot
- 120 and 208-277 Volts Available from Stock
- Industrial Process Maintenance Applications
- Approximate Size 0.47"W x 0.20"H
- Min. Bend Radius 1-1/8"
- For use on Metallic Pipes
- Consult Factory for use on Plastic Piping

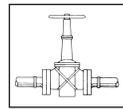
Description

Chromalox SRP self-regulating heating cable provides safe, reliable heat tracing for process maintenance applications to 230°F (110°C) or freeze protection of pipes/tank with high heat losses. Constructed of industrial grade 16 AWG buss wire with a tinned copper braid and overjacketing, SRP ensures operating integrity most hostile industrial environments.

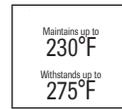
WARNING — A ground fault protection device is required by NEC to minimize the danger of fire if the heating cable is damaged or improperly installed. A minimum trip level of 30mA is recommended to minimize nuisance tripping.



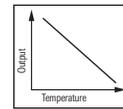
Can be Cut to Length in Field



Can be Single Overlapped



Low Temperature



Self Regulating Output

Features

- Energy efficient, self-regulating SRP uses less energy when less heat is required.
- Easy to install, SRP can be cut to any length (up to max circuit length) in the field.
- SRP features lower installed cost than steam tracing, less maintenance expense and less down time.
- SRP can be single overlapped without burnout, which simplifies heat tracing of in-line process equipment such as valves, elbows and pumps.
- Because SRP is self-regulating, overtemperature conditions are minimized.
- Chromalox U-Series Connection Kits reduce installation time.

Construction

- A** **Twin 16 AWG Copper Buss Wires** – Provide reliable electric 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** **Fluoropolymer Jacket** – Flame retardant, electrically insulates the matrix and buss wires and provides corrosion resistance.
- D** **Tinned Copper Braid** – Provides additional mechanical protection in any environment and a positive ground path.
- E** **High Temperature Fluoropolymer Over-**

jacket – Corrosion resistant, flame retardant overjacket is highly effective in many environments. Protects against exposure to organic or corrosive solutions. The overjacket also protects against abrasion and impact damage.

Approvals

Factory Mutual (FM) approved for ordinary areas. FM, ATEX and IECEx approved for hazardous (classified) areas when used with U Series and DL accessories

FM Approved:

- Class I, Division 2, Groups B, C, D (Gases, vapors)
- Class II, Division 2 Groups F, G (Combustible dust)
- Class III, Division 2 (Easily ignitable fibers and fillings)
- Class I, Zone 1, AEx e II
- 3,5,8 and 10 Watt Rated T4 Temperature Class

ATEX Approved:

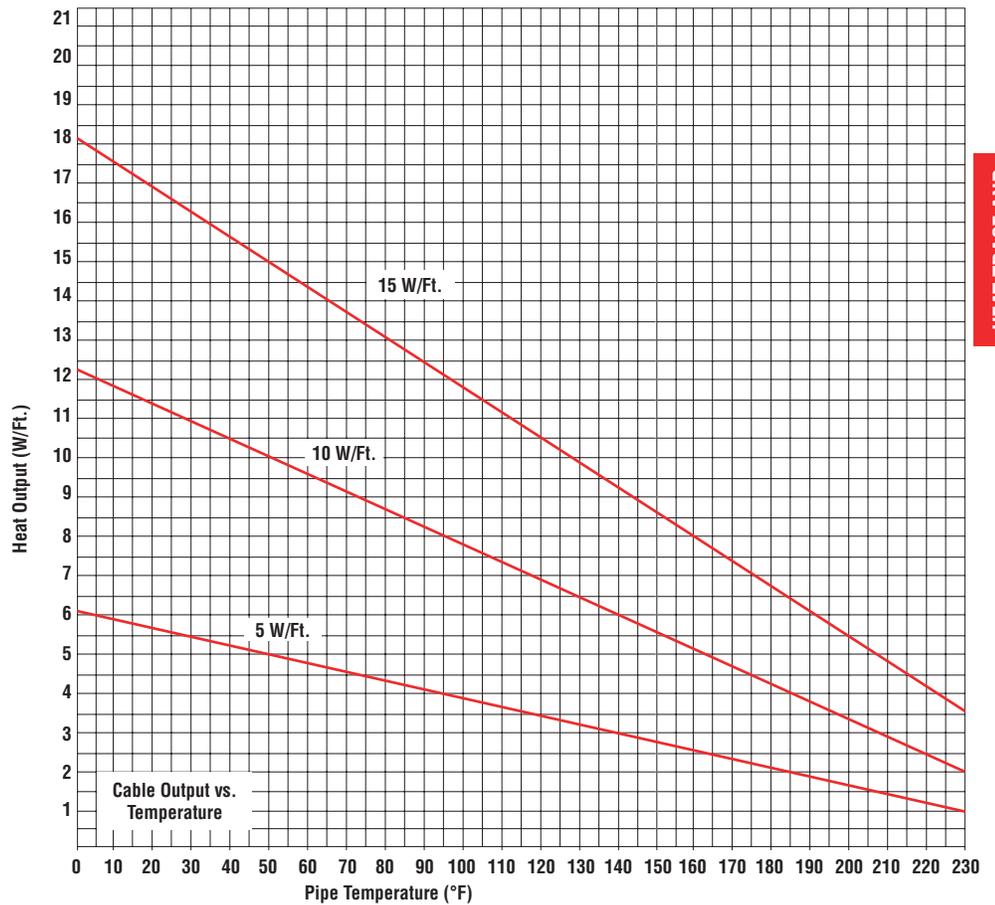
- CE 2903 IIG Ex e IIC T4 Gb Ta -40°C to 70°C

IECEx Approved:

- FMG 17.0015x Ex e IIC T4 Gb Ta -40°C to 70°C

SRP Self-Regulating Process Temperatures *(cont'd.)*

Thermal Output Ratings on Insulated Metal Pipes



HEAT TRACE AND ACCESSORIES

Note 1 — Thermal output is determined per IEEE 515-2011 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 |
|--------|-------|--------------------|-------|--------------------|-------|--------------------|
| SRP 5 | 3.85 | -20 | 4.25 | -13 | 6.45 | +15 |
| SRP 10 | 8.3 | -18 | 8.80 | -10 | 12.50 | +13 |
| SRP 15 | 12.75 | -14 | 13.50 | -9 | 18.45 | +12 |

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

| Cable Rating | 50°F Start-Up (Ft.) | | | | | 0°F Start-Up (Ft.) | | | | | -20°F Start-Up (Ft.) | | | | |
|--------------|---------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|
| | 15A | 20A | 30A | 40A | 50A | 15A | 20A | 30A | 40A | 50A | 15A | 20A | 30A | 40A | 50A |
| SRP5-1 | 145 | 195 | 295 | 390 | 490 | 110 | 145 | 215 | 295 | 360 | 70 | 90 | 135 | 180 | 225 |
| SRP5-2 | 295 | 385 | 580 | 750 | 750 | 220 | 290 | 430 | 580 | 720 | 135 | 180 | 270 | 360 | 450 |
| SRP10-1 | 100 | 135 | 200 | 270 | 330 | 70 | 95 | 145 | 190 | 240 | 65 | 85 | 130 | 175 | 215 |
| SRP10-2 | 200 | 270 | 400 | 530 | 665 | 145 | 190 | 290 | 380 | 480 | 130 | 175 | 260 | 350 | 440 |
| SRP15-1 | 75 | 100 | 150 | 200 | 250 | 60 | 80 | 120 | 160 | 200 | 55 | 70 | 110 | 145 | 180 |
| SRP15-2 | 150 | 195 | 295 | 390 | 500 | 120 | 160 | 235 | 320 | 400 | 110 | 145 | 220 | 290 | 360 |

NR = Not Required. Maximum circuit length has been reached in a smaller breaker size.

SRP Self-Regulating Process Temperatures *(cont'd.)*

Ordering Information

| Output (W/Ft.) | Volts | Model | Stock | PCN | Wt./1000' (Lbs.) |
|--------------------------------|-----------|------------|-------|--------|------------------|
| Output at Rated Voltage | | | | | |
| 5 @ 50°F | 120 | SRP 5-1CT | S | 387188 | 80 |
| | 208 - 277 | SRP 5-2CT | S | 387225 | 80 |
| 10 @ 50°F | 120 | SRP 10-1CT | S | 387129 | 80 |
| | 208 - 277 | SRP 10-2CT | S | 387196 | 80 |
| 15 @ 50°F | 120 | SRP 15-1CT | S | 387073 | 80 |
| | 208 - 277 | SRP 15-2CT | S | 387137 | 80 |

To Order – Specify length, model, PCN and installation accessories.

Accessories

| Accessories | | DL Series | U Series |
|------------------|---|-----------|----------|
| Power Connection | Heat trace to electrical service connection | RTPC | UPC |
| T- Splice | Electrical connection for 3 segments | RTST | UMC |
| In-Line Splice | Electrical connection for 2 segments | RTST | UMC |
| End Seal | For terminating cable | RTES | UES |
| Lighted End Seal | For terminating cable | RTST-SL | UESL |
| Thermostat | Ambient air sensing thermostat | RTAS | UAS |
| | Line sensing mechanical thermostat | RTBC | UBC |

To Order – For general application & installation accessories such as tape, pipe straps, warning labels, etc. refer the to the DL & EL General Application Accessories page at the end of this section.

Ordering Information

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

| Model | Hazardous Location Self-Regulating Process Temperature | | | | |
|-------|--|--|---|----|----------------------|
| SRP | Code | Output (W/Ft.) | | | |
| | 5 | Five | | | |
| | 10 | Ten | | | |
| | 15 | Fifteen | | | |
| | Code | Voltage | | | |
| | 1 | 120 | | | |
| 2 | 240 | | | | |
| | Code | Overjacket Options | | | |
| | CT | Fluoropolymer corrosion resistant overjacket over braid for hostile/corrosive environments | | | |
| SRP | 5 | - | 1 | CT | Typical Model Number |