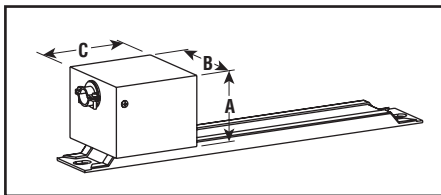


Strip & Ring Heaters Accessories

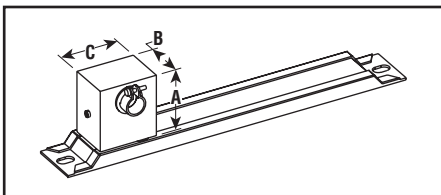
- Protective Terminal Covers
- Shims
- Ceramic Post Terminal Insulators
- Porcelain Hi-Temp Insulation

Protective Terminal Covers — Types OT, PT, SE, WS and Seamless Types SSE, SSEM, SSNH and SSNHM. Helps guard terminals from spillovers, dripping. Removable sheet-metal cover, with Bx fitting, is shipped separately.

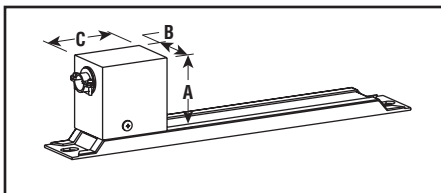
OT-AC-1 (PCN 129242)



PT-AC-1 (PCN 255724)



SE-AC-1 (PCN 256727)



Protective Terminal Covers

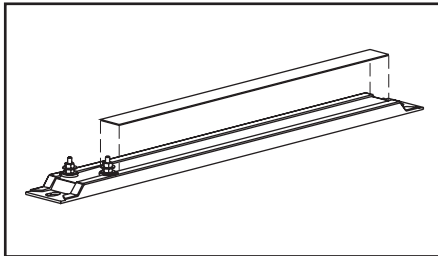
| Model | Dimensions (In.) | | |
|----------------------|------------------|-------|-------|
| | A | B | C |
| OT-AC-1 | 2 | 2-1/2 | 2-1/2 |
| PT-AC-1 | 1-7/8 | 1-1/8 | 1-3/4 |
| SE-AC-1 ¹ | 2-1/16 | 1-1/2 | 2 |

1. Used on type WS (mounted sideways).

Shims

Shims — Types OT, PT, S, SE and TH. Provide same advantage as flush-top construction and can be used with stock heaters. Shims are 0.031" thick, 29/32" wide and lengths to fit heater.

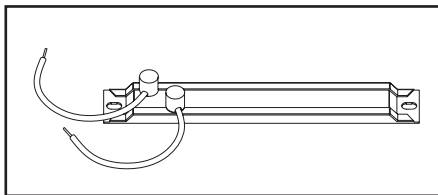
Shims



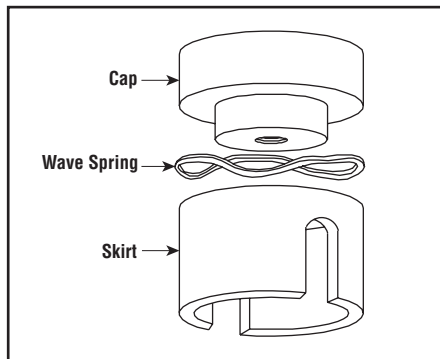
Ceramic Post Terminal Insulators

Ceramic Post Terminal Insulators — All types except NS and SN. Use with insulated wire to help protect against electrical shock. Wires can leave terminal at any angle.

Ceramic Post Terminal Insulators



PCN 259805 (Nickel plated steel hardware)
PCN 255732 (Stainless steel hardware)



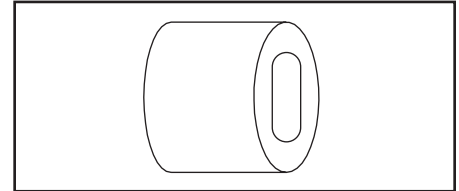
Porcelain Beads

| Bead Size | Dimensions (In.) | | | Wire Size Solid | No. Beads Per Ft. | No. Beads (Pieces) | PCN |
|-----------|------------------|-------|------|-----------------|-------------------|--------------------|--------|
| | A | B | C | | | | |
| 2 | 0.17 | 0.068 | 0.17 | 14 B&S | 88 | 4,535 | 263880 |
| 3 | 0.2 | 0.092 | 0.2 | 12 B&S | 69 | 2,900 | 263900 |
| 4 | 0.26 | 0.156 | 0.26 | 8 B&S | 51 | 1,500 | 263927 |
| 5 | 0.33 | 0.124 | 0.33 | 10 B&S | 45 | 650 | 263943 |
| 6 | 0.4 | 0.156 | 0.4 | 8 B&S | 38 | 360 | 263960 |

To Order—Specify PCN and quantity.

Porcelain Hi-Temp Insulation

Porcelain Hi-Temp Insulation — For insulating buss bars spec. 51 porcelain insulators 1/2 L x 13/16" W with 1/8 x 9/16" slot. 95 pieces per lb.



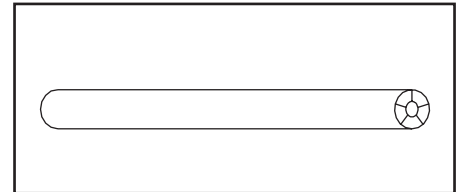
To Order — Specify pounds, PCN 269780 and porcelain insulators.

For Insulating Bare Wires — Two types available:

1. **Porcelain Tubing** — 3/8" O.D. x 1/8" I.D. x 6" L (may be broken for shorter lengths). Suitable for 10-gauge or smaller; 8-gauge takes No. 6 porcelain bead.

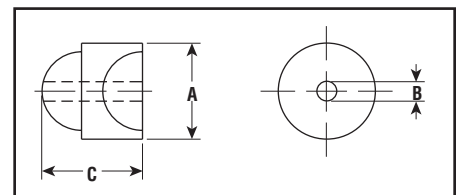
To Order — Specify quantity and PCN 263863.

Porcelain Tubing



2. **Porcelain Beads** — Listed in table below. Can be used when wiring does not permit straight tubing.

Porcelain Beads



3. When selecting porcelain beads for stranded wire, use next larger gauge wire and use bead for that size (i.e., 10 gauge stranded wire requires a No. 6 bead).

Strip & Ring Heaters

Wire & Accessories

(cont'd.)

- High Temperature (Bare) Wire
- Insulated Wire
- Buss Bar
- Silicone Boot Termination Kit
- Silicone Boot Termination Kit with Thermostat

Ambient Temperature Corrections for Insulated Wires — Multiply ampacity values, in tables below, by the following correction factors to determine current-carrying capacity at higher ambient temperatures.

| Ambient Temp. | | Nickel-Plated Copper Teflon® Insulated | Nickel | | |
|---------------|-----|--|----------------|---------------|----------------|
| | | | Silicone Glass | Teflon® Glass | MGS-Mica Glass |
| °C | °F | | | | |
| 30 | 86 | — | — | — | 1.36 |
| 50 | 122 | 0.98 | 0.97 | 0.98 | — |
| 60 | 140 | 0.95 | 0.94 | 0.95 | — |
| 70 | 158 | 0.93 | 0.9 | 0.93 | — |
| 80 | 176 | 0.9 | 0.87 | 0.9 | — |
| 90 | 194 | 0.87 | 0.83 | 0.87 | — |
| 100 | 212 | 0.85 | 0.79 | 0.85 | 1.22 |
| 120 | 248 | 0.79 | 0.71 | 0.79 | — |
| 140 | 284 | 0.72 | 0.61 | 0.72 | — |
| 149 | 300 | 0.65 | 0.5 | 0.65 | 1.12 |
| 177 | 350 | 0.58 | 0.35 | 0.58 | — |
| 204 | 400 | 0.49 | — | 0.49 | 1 |
| 232 | 450 | 0.35 | — | 0.35 | — |
| 260 | 500 | — | — | — | 0.87 |
| 269 | 550 | — | — | — | — |
| 300 | 572 | — | — | — | 0.7 |

Note — After exposure to high temperatures, all wire insulation becomes brittle and will not withstand repeated flexing.

Wire & Buss Bar

High-temperature wire and buss bar are recommended for connections to heater terminals and for runs in heated zones. When ambient temperature exceeds maximum allowed for insulated wire, use bare wire or buss bar with porcelain insulators. Current-carrying capacities should be carefully noted.

Buss bar is solid or perforated to facilitate wiring, especially when terminals are in line. Perforated buss bar, has 11/32 x 7/32" slots on 7/16" centers. When connecting elements with buss bar, provide expansion loops between elements. Buss bars may be used in multiples for higher ampacity (approx. 33-1/2% per buss bar) than listed above, center.

High Temperature (Bare) Wire

| Size AWG | Solid/S Strand/F | Ampacity ¹ | Nom. O.D. | Model | PCN |
|--|------------------|-----------------------|-----------|--------|--------|
| 550°F Max. Wire Temp. Nickel-plated Copper, Uninsulated | | | | | |
| 14 | S | 41 | .064 | CSB-14 | 263839 |
| 10 | S | 70 | .102 | CSB-10 | 263812 |
| 8 | S | 93 | .128 | CSB-8 | 263804 |
| 1000°F Max. Wire Temp. Manganese-Nickel, Uninsulated | | | | | |
| 14 | F | 12 | .075 | AFB-14 | 269317 |
| 14 | S | 12 | .064 | ASB-14 | 269309 |
| 12 | F | 15 | .097 | AFB-12 | 269296 |
| 12 | S | 15 | .081 | ASB-12 | 269288 |
| 10 | S | 20 | .102 | ASB-10 | 269261 |

To Order — Specify PCN and quantity.

Insulated Wire

| Size AWG | Solid/S Strand/F | Ampacity ¹ | Nom. O.D. Insul. In. | Model | PCN |
|---|------------------|-----------------------|----------------------|-----------|--------|
| 392°F Max. Wire Temp. Type A Nickel Wire Silicone Rubber Treated Glass Braid Insulated 600V UL Listed | | | | | |
| 16 | F | 27 | .224 | 3-CFI-16 | 263759 |
| 16 | S | 27 | .224 | 3-CSI-16 | 263740 |
| 14 | F | 36 | .237 | 3-CFI-14 | 263732 |
| 14 | S | 36 | .237 | 3-CSI-14 | 263724 |
| 12 | F | 45 | .263 | 3-CFI-12 | 263716 |
| 12 | S | 45 | .263 | 3-CSI-12 | 263708 |
| 10 | F | 60 | .29 | 3-CFI-10 | 263695 |
| 10 | S | 60 | .29 | 3-CSI-10 | 263687 |
| 482°F Max. Wire Temp. Type TGT, Nickel-plated Copper, Teflon® Impregnated Glass Braid Insulated 600V UL Listed | | | | | |
| 14 | F | 39 | .121 | 6-CFI-14 | 263791 |
| 14 | S | 39 | .112 | 6-CSI-14 | 295398 |
| 12 | F | 54 | .141 | 6-CFI-12 | 263783 |
| 12 | S | 54 | .13 | 6-CSI-12 | 295400 |
| 10 | F | 73 | .17 | 6-CFI-10 | 263775 |
| 10 | S | 73 | .156 | 6-CSI-10 | 295419 |
| 8 | F | 93 | .212 | 6-CFI-8 | 263767 |
| 482°F Max. Wire Temp. Teflon® Tape and Silicone Impregnated Glass Braid Insulated 600V UL Listed | | | | | |
| 14 | F | 39 | .121 | 3-AFI-14 | 269253 |
| 12 | F | 54 | .141 | 3-AFI-12 | 269237 |
| 10 | F | 73 | .17 | 3-AFI-10 | 269210 |
| 842°F Max. Wire Temp. Nickel-clad Copper, MGS-Mica Glass Insulated 600V | | | | | |
| 16 | F | 33' | .065 | 6-CFIM-16 | 295355 |
| 14 | F | 44' | .102 | 6-CFIM-14 | 295363 |
| 12 | F | 55' | .118 | 6-CFIM-12 | 295371 |

To Order — Specify PCN and quantity.
 1. See note 1 in Buss Bar Table.
 2. These wiring recommendations are general in nature. Confirm actual wire size and selection in accordance with NEC (National Electrical Code).

Buss Bar

| Buss Bar Model | DIM (In.) | | Ampacity ¹ | PCN |
|---|-----------|-------|-----------------------|--------|
| | Width | Thick | | |
| 700°F Max. Wire Temp. | | | | |
| Solid | | | | |
| | 0.5 | .032 | 18 | 346124 |
| | 0.5 | .064 | 28 | 346132 |
| Perforated Slot Size = 7/32 Dia. | | | | |
| | 0.5 | .032 | 9 | 346140 |
| | 0.5 | .064 | 16 | 346159 |

To Order — Specify PCN and number of feet.
 1. These current values will cause the conductor to operate at 100°F above surrounding ambient. Values may also be used for bare wire with porcelain tubes or bead insulation. Model max. limit is 800°F.



Silicone Boot Termination Kit

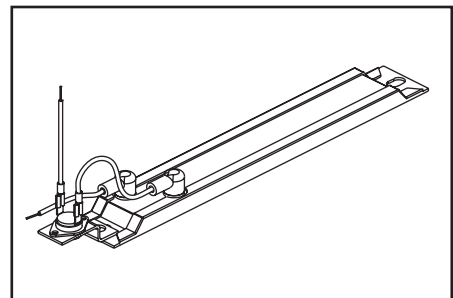
SBK — The silicone boot termination kit provides electrical insulation for strip heater terminals and leads with ring type insulated connector on one end for bringing power to the strip heaters.

Silicone Boot Termination Kit with Thermostat

SBKT — The silicone boot termination kit with thermostat used with strip heaters provides an inexpensive way to maintain temperature in control cabinets, panels and other small enclosures. In this application, strip heaters are used to prevent freezing and corrosion, and to control humidity in enclosures with humidity sensitive electronic components.

| Model | PCN | Temperature (°F) | |
|--------|--------|------------------|-------|
| | | Closes | Opens |
| SBKT-1 | 386011 | 38 | 53 |
| SBKT-2 | 386020 | 60 | 75 |
| SBKT-3 | 386038 | 105 | 120 |
| SBK | 121890 | N/A | N/A |

SBKT



Strip & Ring Heaters

Accessories (cont'd.)

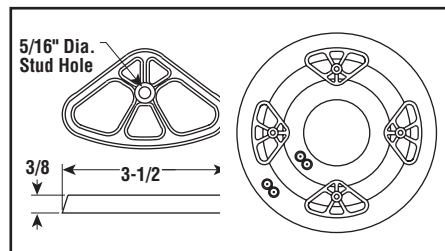
- Element Clamps
- Mounting Studs

Element Clamps

Cast-iron clamps, for use with Chromalox strip and ring elements, retain their strength at elevated temperatures to assure maximum sheath-to-surface contact. Resulting uniform efficient heat transfer from internal resistance wire to the heated material minimize hot spots on the element, contributing to long service life.

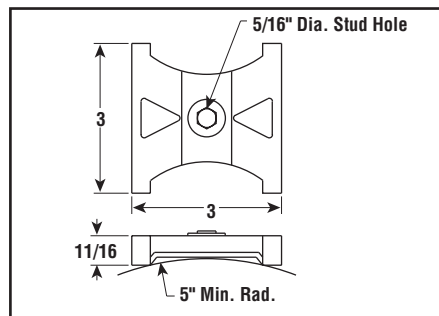
Clamp 6018 — Usually used in sets of two or more to clamp ring elements to flat surfaces. 5/16" flathead machine screws are normally used with head brazed or welded to work surface (PCN 263978).

Clamp 6018



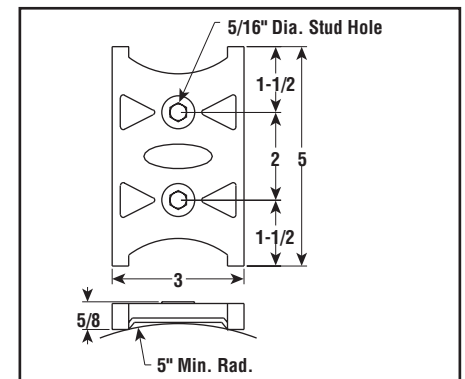
Clamp 5971 — Use to clamp two strip heaters on 2" centers using 5/16" studs spaced 5" apart (PCN 263636).

Clamp 5971



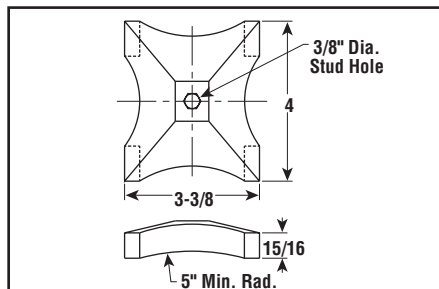
Clamp 5970 — Use to clamp three strip heaters on 2" centers using 5/16" studs at 5" intervals (PCN 263652).

Clamp 5970



Clamp 6933 — Use to clamp two strip heaters on 3" centers using 3/8" studs at 5" intervals (PCN 263644).

Clamp 6933



Mounting Studs

Mounting Studs — For use with Chromalox clamps. For all clamps except No. 6933, studs are 5/16" — 18 x 1-1/2" Monel® (PCN 127845), steel washer (PCN 127853), Monel® nut (PCN 127861). For No. 6933 clamp; studs are 5/16" — 18 x 2" Monel® (PCN 127837).

Installation — Fasten studs to the work surface by welding, brazing or threading. Use correct size stud to fit clamp. See Selection & Installation Guidelines in the Components section. For temperatures over 750°F, stainless steel studs are recommended.

Note — When tightening nuts, torsion should not exceed 10 foot pounds maximum. Heaters must be allowed to expand. One center clamp should hold heater. Nuts on other clamps should be backed off approximately 1/2 turn to allow for heater expansion.