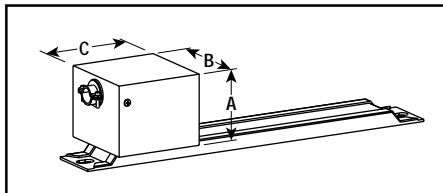


Strip & Ring Heaters Accessories

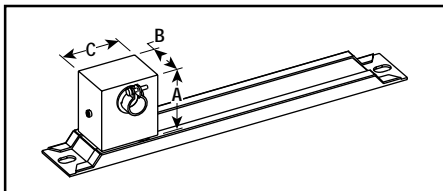
- Protective Terminal Covers
- Shims
- Ceramic Post Terminal Insulators
- Porcelain Hi-Temp Insulation

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.

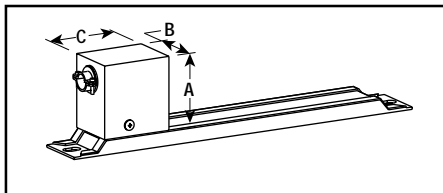
OT-AC-1 (PCN 129242)



PT-AC-1 (PCN 255724)



SE-AC-1 (PCN 256727)



Protective Terminal Covers

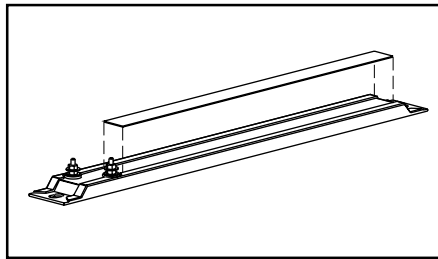
Model	Dimensions (In.)		
	A	B	C
OT-AC-1	2	2-1/2	2-1/2
PT-AC-1	1-7/8	1-1/8	1-3/4
SE-AC-1 ¹	2-1/16	1-1/2	2

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.

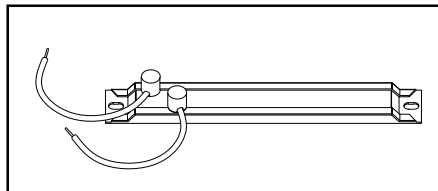
Shims



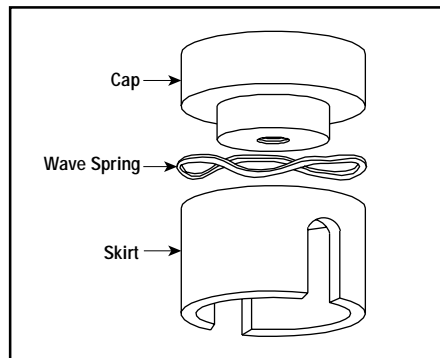
Ceramic Post Terminal Insulators

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. For strip heaters only.

Ceramic Post Terminal Insulators



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



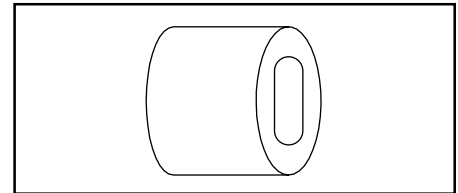
Porcelain Beads

Bead Size	Dimensions (In.)			Wire Size Solid	No. Beads Per Ft.	No. Beads Per Lb.	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, number of pounds 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.



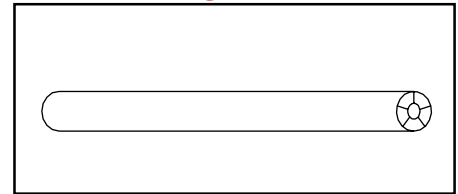
To Order — Specify pounds, PCN 269780 and porcelain insulators.

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.

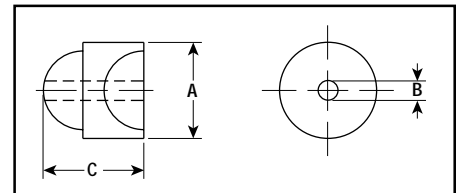
To Order — Specify quantity and PCN 263863.

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 Insulated	Nickel		
		Teflon® 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
120	248	0.79	0.71	0.79
140	284	0.72	0.61	0.72
149	300	0.65	0.5	0.65
177	350	0.58	0.35	0.58
204	400	0.49	—	0.49
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 below.

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	F	20	.12	AFB10	269270
10	S	20	.102	ASB-10	269261

To Order — Specify PCN and quantity.

Insulated Wire

Size AWG	Solid/S Strand/F	Ampacity ¹	Nom. Insul In. O.D.	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
8	F	83	.31	3-CFI-8	263679
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 ¹	.065	6-CFIM-16	295355
14	F	44 ¹	.102	6-CFIM-14	295363
12	F	55 ¹	.118	6-CFIM-12	295371

To Order — Specify PCN and quantity.

1. See note 1 in Buss Bar Table.

Buss Bar

Manganese-Nickel	DIM (In.)		Ampacity ¹	PCN
	Width	Thick		
1100°F Max. Wire Temp.				
Solid	1/2	.032	26	263847
Perforated	1/2	.032	23	263855

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.



Silicone Boot Termination Kit

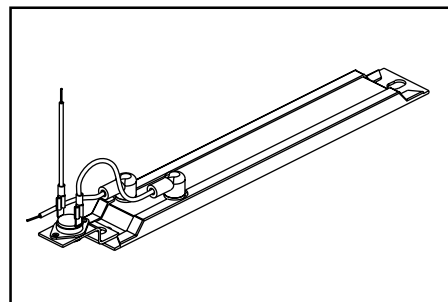
SBK — The silicone boot termination kit provides electrical insulation for strip heater terminals and leads with ring type insulated connector on one end for bringing power to the strip heaters.

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.)

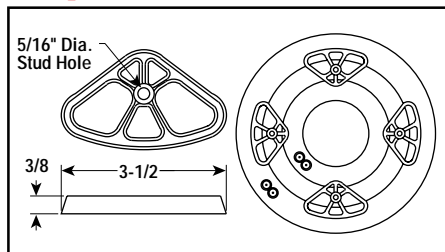
- Element Clamps
- Clamping Bands
- Mounting Studs

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.

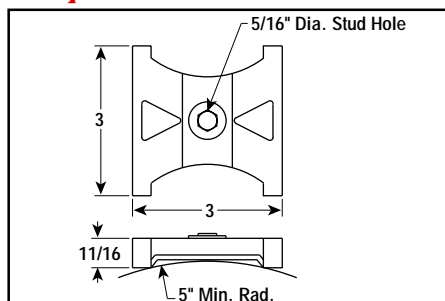
Clamp 6018 — Usually used in sets of two or more to clamp ring elements to flat surfaces. 5/16" flathead machine screws are normally used with head brazed or welded to work surface (PCN 263978).

Clamp 6018



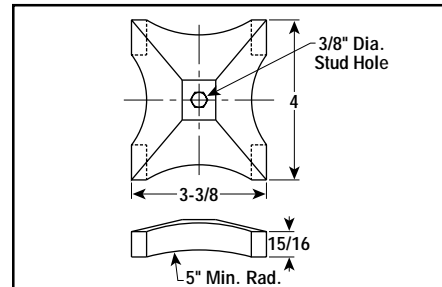
Clamp 5971 — Use to clamp two strip heaters on 2" centers using 5/16" studs spaced 5" apart (PCN 263636).

Clamp 5971



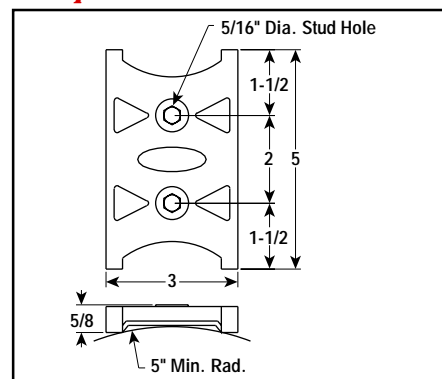
Clamp 6933 — Use to clamp two strip heaters on 3" centers using 3/8" studs at 5" intervals (PCN 263644).

Clamp 6933



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

Clamp 5970

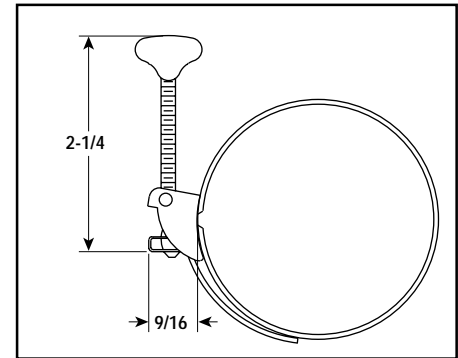


Clamping Bands

Type SC Clamping Bands — Provide permanently tight fit on cylinders, nozzles, pipes and other round surfaces. Stainless steel band with alloy screw. For small pipe diameters, strip elements should have cross-section curving (see Modifications in the Components section).

For Most Satisfactory Results, bands should be spaced about 5 inches apart and should be drawn up tight to assure good contact between heater or thermostat bulb and surface.

Clamping Bands (type SC)



Clamping Bands

Max. Pipe Dia. (In.)	Model	Stock	PCN
6-1/8	SC-820-20	S	265340
7-1/8	SC-820-22	S	265359
9-1/8	SC-820-26	S	265367
11-1/8	SC-820-30	S	265375
14-1/8	SC-820-34	S	265383
16-1/8	SC-820-36	S	265391
20-1/8	SC-820-40	S	265404
26-1/8	SC-820-46	S	265412

To Order — Specify PCN and quantity.

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 clamp should hold heater. Nuts on other clamps should be backed off approximately 1/2 turn to allow for heater expansion.