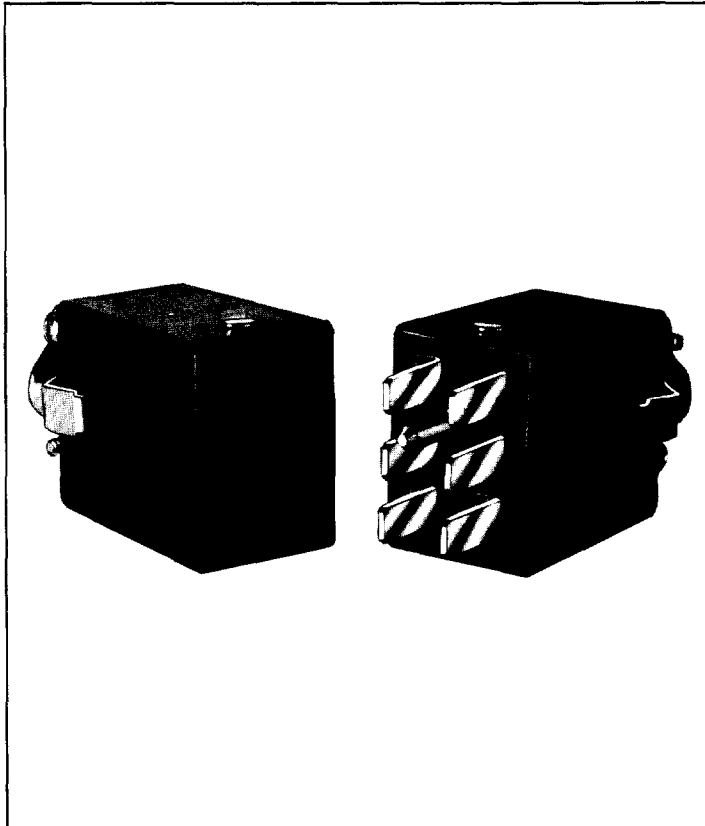


15 Amps/Series 5400



For panel and cable mounting

Beau 5400 connectors are designed for use in panel and cable mounting applications. They can be mated with all Beau 4400 and 5400 models, and are also interchangeable with "Series 2400 or 400 type" connectors. The 5400 connectors have a flange molded into the base which neatly conceals the panel cutout. The many important features of the 5400 series are described in the introduction to this catalog (see pages 2 thru 4.) All other data on this series is given starting on this page, through page 21.

Electrical rating: Individual contacts are rated at 15 amps, 1750 volts rms. Current rating and voltage in excess of 250 volts ac or dc are rated according to the applicable specifications for electrical equipment in which these connectors are used and with respect to operating temperatures.

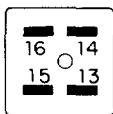
Typical applications for 5400 connectors are traffic control equipment, industrial machinery, heating and cooling equipment, signal systems, etc.

Contact orientation

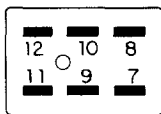
The polarization arrangement numbers shown below are for *sockets*, as viewed from the wiring side. Plug numbering is the opposite.

Standard connectors

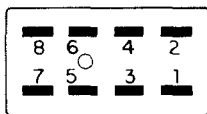
○ = polarizing position ● = polarizing position — current-carrying contacts



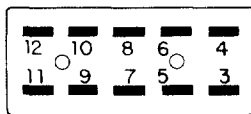
5404



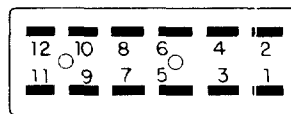
5406



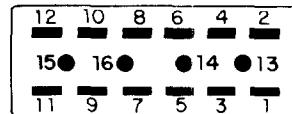
5408



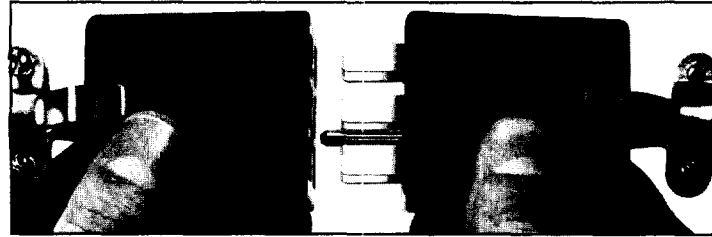
5410



5412



5414, 5415, 5416



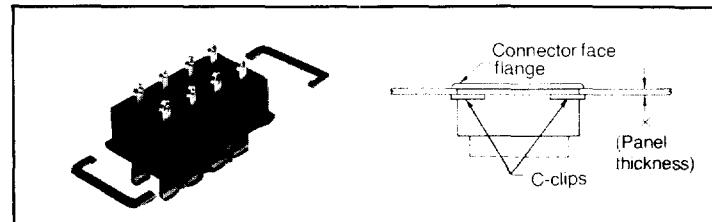
Pre-grounding connectors for greater safety

Vernitron gives you the greater safety of U.L. recognized, CSA certified pre-grounding plug and socket connectors. The extra long grounding contact engages before any other active contacts are mated.

With the longer pre-grounding contact, you will never have to cut any contacts to a shorter length to achieve a safer connection. No more costly, time-consuming hand cutting operations — and you attain the lowest installed cost.

The pre-grounding connectors are available in a large variety of styles — for chassis and cable mounting, with various types of mounting hardware, locking devices, etc. Compared to regular 5400 series connectors, the pre-grounding contact is an additional contact position, rather than taking the place of a standard contact. For sizes and dimensions, see pages 18-20.

To order pre-grounding connectors, add a "G" to the catalog number; for example: FG-5411-CCT or SG-5411-DB.



C-clips for fast panel mounting

SCC C-clips. These exclusive C-clips make it possible to mount Beau connectors in 1/4th the time normally required. No holes to drill. No screws, bolts or rivets to fasten. Just slide on a pair of C-clips and the connector is secure. The clips seat into a groove and grip the body of the connector, parallel to the molded face flange.

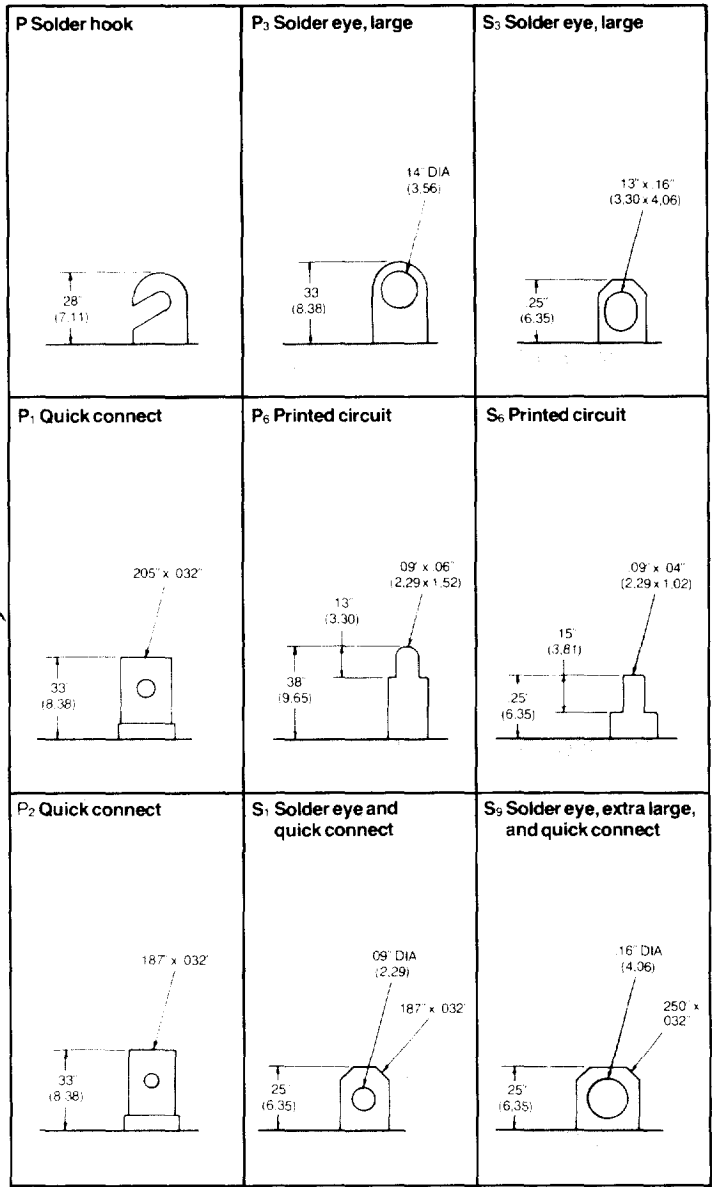
Panel thickness (dimension X) must be specified by the customer in thousandths of an inch (or mm) when ordering.

Available in 5404 through 5416 (4 to 16 contacts). For sizes and dimensions, see pages 18-19.

SCC-4 Tool. Hand tool for inserting C-clips. Makes job even quicker. One size tool handles 5404 through 5416 connectors.

Contact tails

Vernitron offers the widest selection of contact tails — all available off the shelf. To specify, add sub-number to catalog number; example: P₂-5404. For solder hook contact tails (plugs only), no sub-number is needed.



Figures in parenthesis are millimeters.

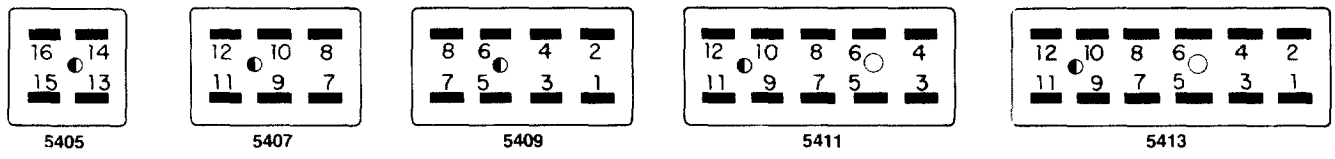
Specifications

Current rating, individual contacts	15 amps
Voltage rating, rms	1750 volts; 250 volts (U.L.▲)
Standards	U.L. recognized (File No. E34763) CSA certified (File No. 22156)
No. of contacts — Standard series	4 to 16
Pre-grounding	5 to 13 (incl grounding contact)
Plug contact material	Brass, cadmium plated
Plug contact dimensions (exposed contact surface)	.54" L x .25" W x .06" thick (13,7 x 6,4 x 1,5 mm)
Socket contact	Phosphor bronze, cadmium plated. Double-wipe contact engages both sides of plug contacts
Pre-grounding contact rating	Up to 30 amps at rated voltages
Pre-grounding contact material	Heavy-duty plated brass
Pre-grounding contact tail	Mounted on an elevated barrier which results in additional creep distance between adjacent contacts
Contact plating options (add dash number to catalog number)	-03: .0003" (8μm) silver -C4: .000015" (0,4μm) gold over .0002" (5μm) nickel -05: .00001" (0,3μm) rhodium over .0002" (5μm) nickel
Base insulating material	High-grade phenolic, black
Backshell materials	Thermoplastic (standard). Metal (option -M)
Backshell handles	Available for 5406 thru 5416. Consult factory
Hardware materials/finishes —	
Cable clamp, screws, latch and keeper, angle bracket, 63A lock	Steel, bright nickel electroplated
Deep and shallow bracket, and metal backshells	Steel, baked black wrinkle enamel finish over zinc chromate plating

▲U.L. rated at 250V, ac or dc, max between adjacent contacts. U.L. will consider higher voltages depending upon arrangement of live contacts and applicable requirements for equipment in which it is used.

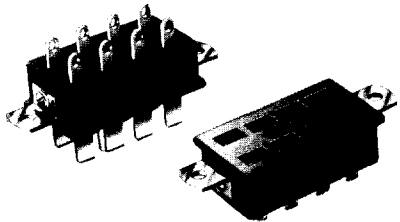
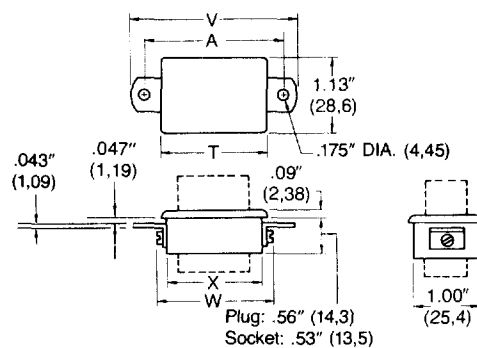
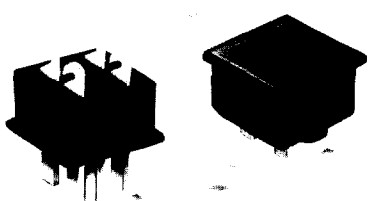
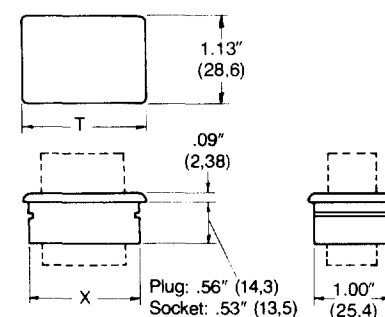
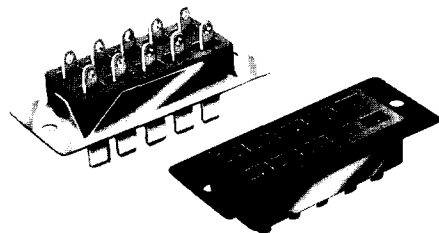
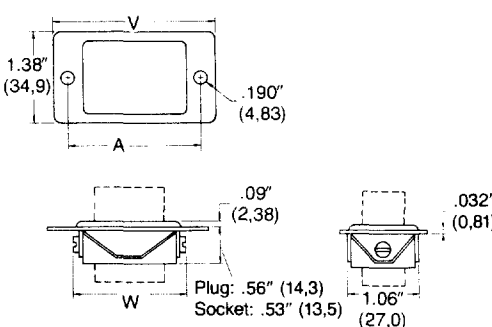
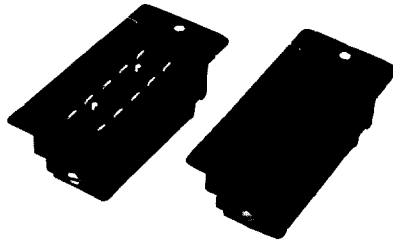
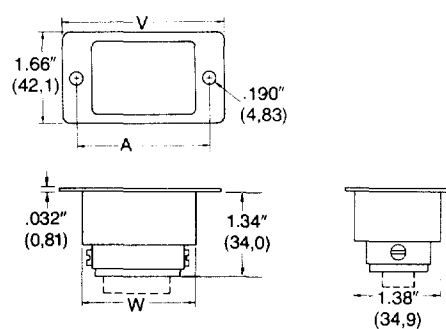
Pre-grounding connectors

○ = polarizing position ● = combination pre-grounding/polarizing position



15 Amps/Series 5400

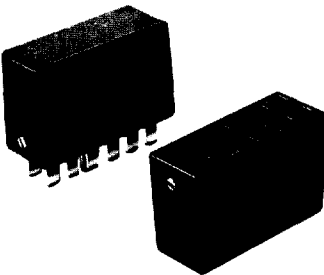
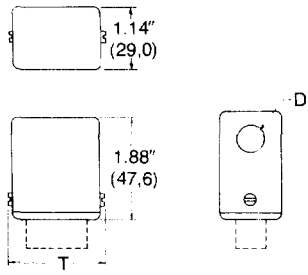
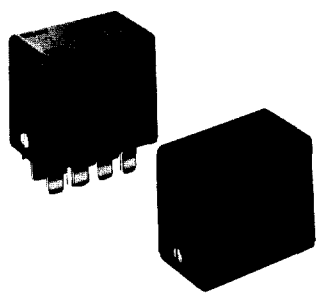
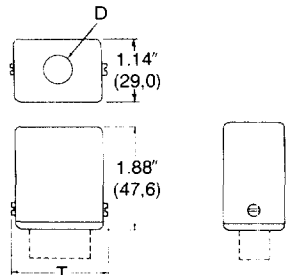
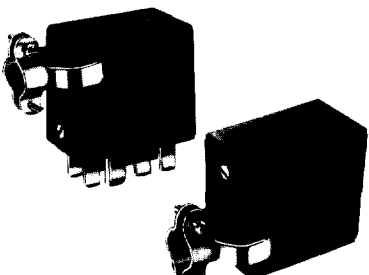
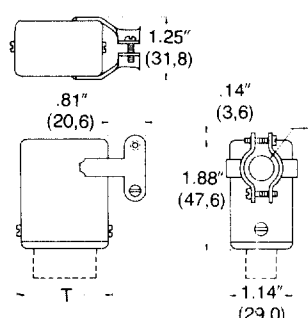
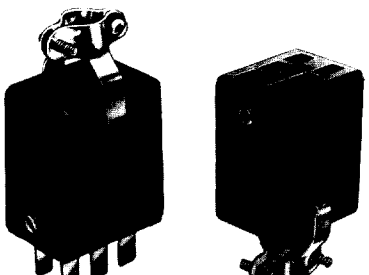
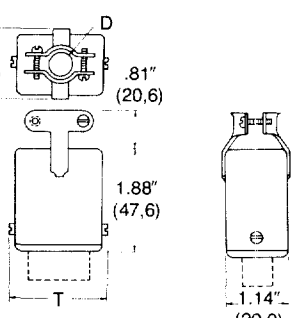
Panel mounting styles

Mounting hardware	Connector dimension drawings Dimensions: inches (mm)	Plug and Socket		Pre-grounding	
		No. of Contacts	Cat. No. (P- or S-)	No. of Contacts	Cat. No. (PG- or SG-)
AB Angle Bracket ABT Angle Bracket Tapped (6-32) LAB Less Angle Bracket 	Fig. D 	4 6 8 10 12 14 15 16	5404 5406 5408 5410 5412 5414 5415 5416	5 7 9 11 13 — — —	5405 5407 5409 5411 5413 — — —
SCC Snap C-Clip  <p>Specify panel thickness when ordering.</p>	Fig. E 	4 6 8 10 12 14 15 16	5404 5406 5408 5410 5412 5414 5415 5416	5 7 9 11 13 — — —	5405 5407 5409 5411 5413 — — —
SB Shallow Bracket 	Fig. F 	4 6 8 10 12 14 15 16	5404 5406 5408 5410 5412 5414 5415 5416	5 7 9 11 13 — — —	5405 5407 5409 5411 5413 — — —
DB Deep Bracket 	Fig. G 	4 6 8 10 12 14 15 16	5404 5406 5408 5410 5412 5414 5415 5416	5 7 9 11 13 — — —	5405 5407 5409 5411 5413 — — —

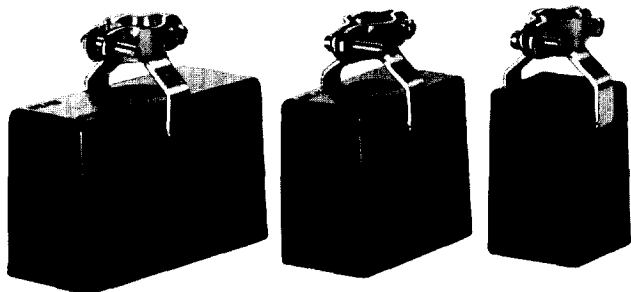
Connector dimensions				Panel mounting dimensions (suggested)				Cat. No. (P- or S-)	Panel dimension drawings (suggested)			
T		V		W		X				A		C
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	
1.13	28,6	2.02	51,2	1.23	31,4	1.00	25,4	1.594	40,5	1.015	25,8	5404 5406 5408 5410 5412 5414 5415 5416 Fig. J
1.56	39,7	2.45	62,3	1.67	42,5	1.44	36,5	2.031	51,6	1.453	36,9	
2.00	50,8	2.89	73,4	2.11	53,6	1.88	47,6	2.468	62,7	1.891	48,0	
2.44	61,9	3.33	84,5	2.55	64,7	2.31	58,7	2.906	73,8	2.328	59,1	
2.88	73,0	3.77	95,6	2.98	75,8	2.75	69,9	3.344	84,9	2.766	70,3	
2.88	73,0	3.77	95,6	2.98	75,8	2.75	69,9	3.344	84,9	2.766	70,3	
2.88	73,0	3.77	95,6	2.98	75,8	2.75	69,9	3.344	84,9	2.766	70,3	
1.13	28,6	—	—	—	—	1.00	25,4	—	—	1.015	25,8	5404 5406 5408 5410 5412 5414 5415 5416 Fig. K
1.56	39,7	—	—	—	—	1.44	36,5	—	—	1.453	36,9	
2.00	50,8	—	—	—	—	1.88	47,6	—	—	1.891	48,0	
2.44	61,9	—	—	—	—	2.31	58,7	—	—	2.328	59,1	
2.88	73,0	—	—	—	—	2.75	69,9	—	—	2.766	70,3	
2.88	73,0	—	—	—	—	2.75	69,9	—	—	2.766	70,3	
2.88	73,0	—	—	—	—	2.75	69,9	—	—	2.766	70,3	
—	—	1.92	48,8	1.16	29,4	—	—	1.500	38,1	1.250	31,8	5404 5406 5408 5410 5412 5414 5415 5416 Fig. L
—	—	2.36	59,9	1.59	40,5	—	—	1.937	49,2	1.687	42,8	
—	—	2.80	71,0	2.03	51,6	—	—	2.375	60,3	2.125	54,0	
—	—	3.23	82,2	2.47	62,7	—	—	2.812	71,4	2.562	65,1	
—	—	3.67	93,3	2.91	73,8	—	—	3.250	82,6	3.000	76,2	
—	—	3.67	93,3	2.91	73,8	—	—	3.250	82,6	3.000	76,2	
—	—	3.67	93,3	2.91	73,8	—	—	3.250	82,6	3.000	76,2	
—	—	2.19	55,6	1.38	34,9	—	—	1.750	44,5	1.437	36,5	5404 5406 5408 5410 5412 5414 5415 5416 Fig. M
—	—	2.63	66,7	1.81	46,0	—	—	2.187	55,5	1.875	47,6	
—	—	3.06	77,8	2.25	57,2	—	—	2.625	66,7	2.312	58,7	
—	—	3.50	88,9	2.69	68,3	—	—	3.062	77,8	2.750	69,9	
—	—	3.94	100	3.13	79,4	—	—	3.500	88,9	3.187	80,9	
—	—	3.94	100	3.13	79,4	—	—	3.500	88,9	3.187	80,9	
—	—	3.94	100	3.13	79,4	—	—	3.500	88,9	3.187	80,9	

15 Amps/Series 5400

Cable mounting styles

Mounting hardware	Plug and Socket		Pre-grounding		Connector dimensions				Connector dimension drawings
	No. of Contacts	Cat. No. (P- or S-)	No. of Contacts	Cat. No. (PG- or SG-)	D†		T		Dimensions: inches (mm)
					in.	mm	in.	mm	
FHE Flared Hole End 	4	5404	5	5405	.44	11,1	1.23	31,4	Fig. J 
	6	5406	7	5407	.44	11,1	1.67	42,5	
	8	5408	9	5409	.56	14,3	2.11	53,6	
	10	5410	11	5411	.56	14,3	2.55	64,7	
	12	5412	13	5413	.63	15,9	2.98	75,8	
	14	5414	—	—	.63	15,9	2.98	75,8	
	15	5415	—	—	.63	15,9	2.98	75,8	
16	5416	—	—	.63	15,9	2.98	75,8		
FHT Flared Hole Top 	4	5404	5	5405	.44	11,1	1.23	31,4	Fig. K 
	6	5406	7	5407	.44	11,1	1.67	42,5	
	8	5408	9	5409	.56	14,3	2.11	53,6	
	10	5410	11	5411	.56	14,3	2.55	64,7	
	12	5412	13	5413	.63	15,9	2.98	75,8	
	14	5414	—	—	.63	15,9	2.98	75,8	
	15	5415	—	—	.63	15,9	2.98	75,8	
16	5416	—	—	.63	15,9	2.98	75,8		
CCE Cable Clamp End 	4	5404	5	5405	.44	11,1	1.23	31,4	Fig. L 
	6	5406	7	5407	.44	11,1	1.67	42,5	
	8	5408	9	5409	.56	14,3	2.11	53,6	
	10	5410	11	5411	.56	14,3	2.55	64,7	
	12	5412	13	5413	.63	15,9	2.98	75,8	
	14	5414	—	—	.63	15,9	2.98	75,8	
	15	5415	—	—	.63	15,9	2.98	75,8	
16	5416	—	—	.63	15,9	2.98	75,8		
CCT Cable Clamp Top 	4	5404	5	5405	.44	11,1	1.23	31,4	Fig. M 
	6	5406	7	5407	.44	11,1	1.67	42,5	
	8	5408	9	5409	.56	14,3	2.11	53,6	
	10	5410	11	5411	.56	14,3	2.55	64,7	
	12	5412	13	5413	.63	15,9	2.98	75,8	
	14	5414	—	—	.63	15,9	2.98	75,8	
	15	5415	—	—	.63	15,9	2.98	75,8	
16	5416	—	—	.63	15,9	2.98	75,8		

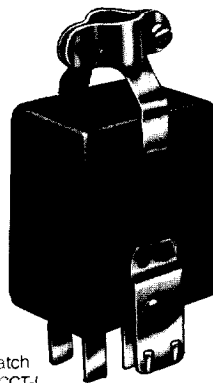
Cable mounting hardware



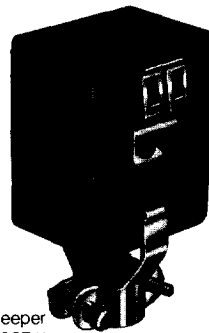
Backshells

Thermoplastic (standard). These molded thermoplastic backshells, exclusively from Vernitron, provide greater dielectric strength — and greater safety than metal backshells. They are also highly resilient, non-denting, non-rusting, acid resistant. U.L. recognized. CSA certified. Color, black.

Metal (option -M). Available upon request. Made of zinc plated steel, chromate dipped and painted with baked black wrinkle enamel finish. Furnished with insulating paper liners. U.L. recognized, CSA certified.



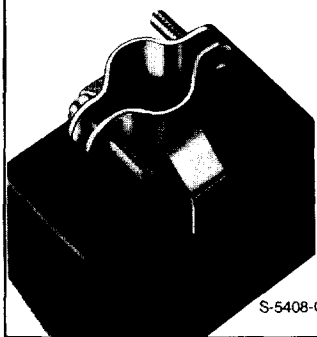
With Latch
P-5406-CCT-L



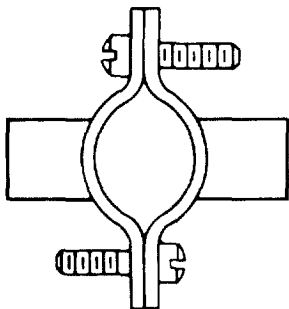
With Keeper
S-5406-CCT-K

Latch (-L) and Keeper (-K)

For connecting two cable-mounted connectors. Plug and socket can be equipped with either a latch (-L) or keeper (-K).



S-5408-CCT

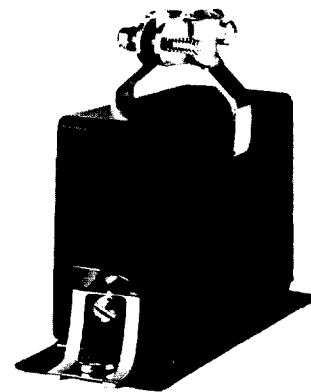
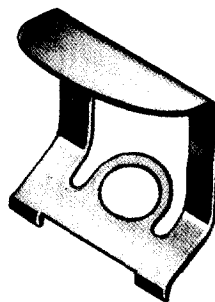


Cable clamps

Strain relief cable clamps, used with round cable. For top mounting (-CCT) or end mounting (-CCE).

For connector size	Clamp opening diam, in. (mm)		Clamp Cat. No.
	min	max	
STANDARD CLAMP SIZES			
5404 thru 5406	.38" (9,7)	.72" (18,3)	36*
5408 thru 5416	.38" (9,7)	.84" (21,3)	36A*
CLAMP OPTIONS			
5404 thru 5416	.45" (11,4)	.91" (23,1)	78
5404 thru 5416 for CCE mating DB	.38" (9,7)	.72" (18,3)	47

*Order number not required. This clamp size automatically furnished when ordering CCT or -CCE.



63A Panel lock and stud

For locking a cable-mounted connector to a panel-mounted connector. In panel mounting applications, the 63A lock mounts with the same screw used to secure the bracket. The stud is built into the backshell; to order, add dash number to connector catalog number (two types available; see table below). Panel locks are ordered separately: Catalog No. 63A; also specify panel mounting style SB or DB).

Mounting hardware	Connector sizes	Stud Cat. No.
SB Shallow bracket	5404 thru 5416	-63A-SB
DB Deep bracket	5404 thru 5416	-63A-DB