



P7 ATCA Inject / Eject Mechanism

Ejectors

- Ergonomic inject / eject lever designed for easy operation
- Secondary catch on inject / eject operates microswitch to permit hot-swapping

Material and Finish

Steel plated and glass-filled nylon, black
Washers: Stainless steel

Performance Details

Flammability rating: UL94-V0

Installation Notes

See page 405

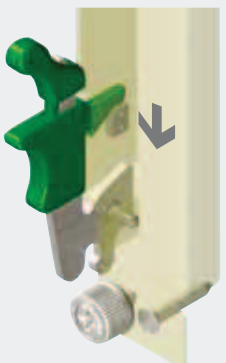
Notes

Custom colors available, please contact Southco

Lever Style Switch Operation

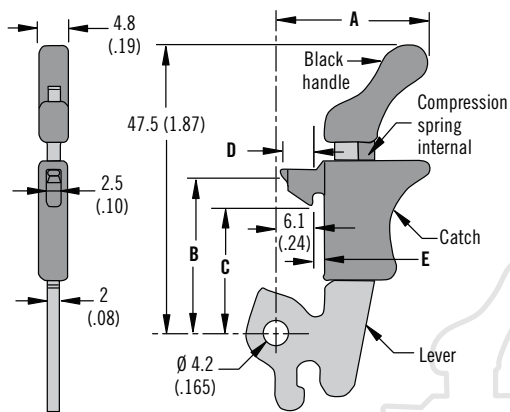


Plunger Style Switch Operation

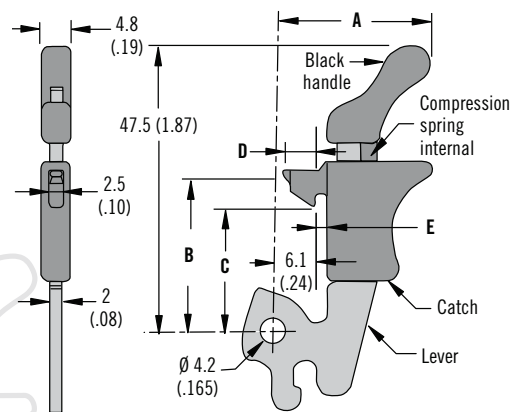


Lever Style Switch

Panel thickness 0.8 - 1.5 (.031 - .059)

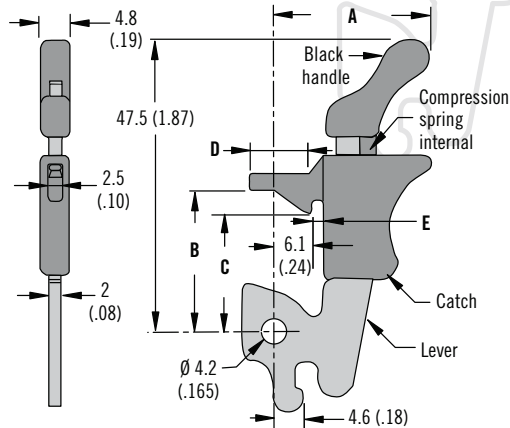


Panel thickness 2 - 2.5 (.078 - .098)

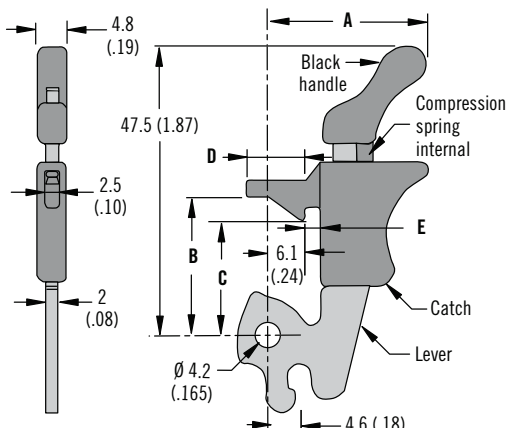


Plunger Style Switch

Panel thickness 0.8 - 1.5 (.031 - .059)

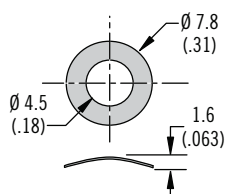


Panel thickness 2 - 2.5 (.078 - .098)

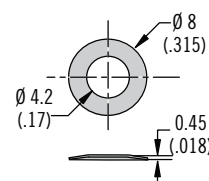


Style	Panel Thickness	Part Number	A	B	C	D	E
Lever style complete with u-bent washer	0.8 - 1.5 (.031 - .059)	P7-A-513-11	25.2 (.99)	26.1 (1.03)	20.8 (.82)	5.4 (.21)	1.9 (.07)
	2 - 2.5 (.078 - .098)	P7-A-523-11	26.2 (1.03)	26.1 (1.03)	20.8 (.82)	5.4 (.21)	2.9 (.11)
Plunger style complete with belleville washer	0.8 - 1.5 (.031 - .059)	P7-A-533-11	25.2 (.99)	23 (.90)	19 (.75)	9.6 (.38)	1.9 (.07)
	2 - 2.5 (.078 - .098)	P7-A-543-11	25.2 (.99)	23 (.90)	19 (.75)	9.6 (.38)	2.9 (.11)

U-Bent Washer (supplied)



Belleville Washer (supplied)



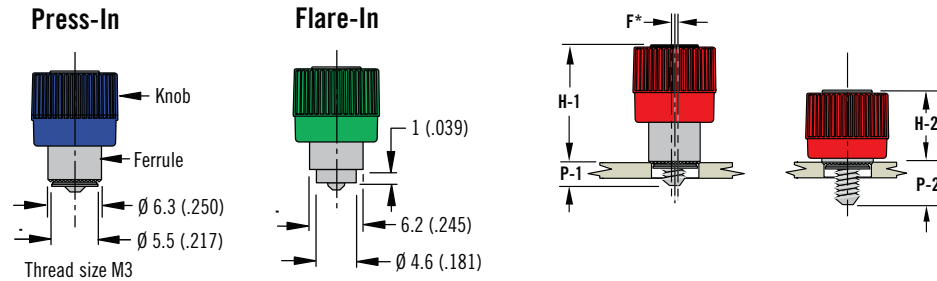
Dimensions in millimeters (inch) unless otherwise stated

P7 ATCA Inject / Eject Mechanism

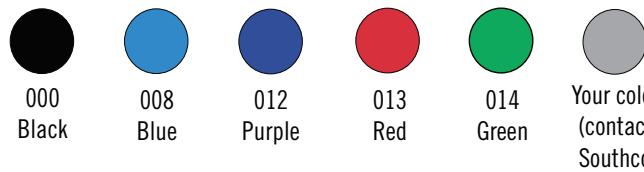
Captive screws



4C Series



ACTUAL SIZE



- M3 thread
- No. 2 Phillips recess
- Color match available

Material and Finish

Screw and ferrule steel plated knob aluminum or PC/ABS

Performance Details

Flammability rating: UL94-V0

Installation Notes

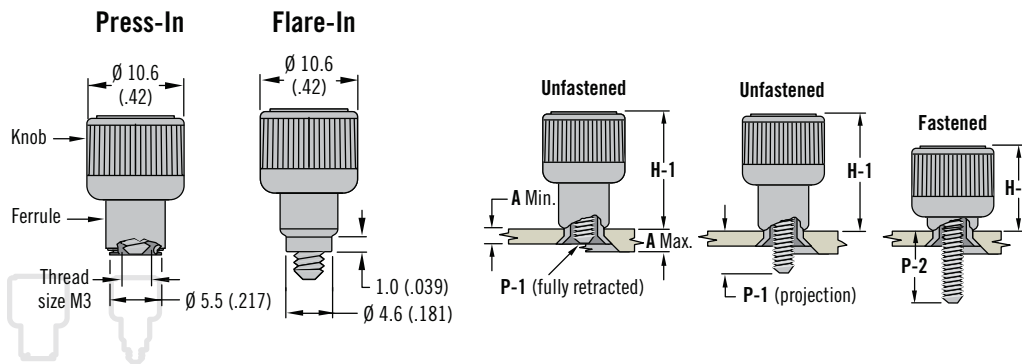
Please refer to installation drawings on page 405 for reference on dimensions **B***, **Ø D*** and **Ø Z***

Notes

New ATCA R3.0 compliant screw, see www.southco.com for latest details

F* indicates maximum float in the unfastened position

47 Series



ACTUAL SIZE

Part Number

See table

Series	Installation Method	Panel Thickness			Part Number	P-1	P-2	H-1	H-2	F*	Panel Preparation	
		A Min.	A Max.	B*							No. 2 Phillips	Ø D*
ATCA compliant screw	Press-in	0.9 (.036)	~	~	47-99-945-1P0	1.0 (.39)	5.0 (.20)	14.3 (.56)	10.1 (.40)	1 (.39)	5.95 ±0.04 (.23±.002)	3.2 ^{+0.2} _{-0.1} (.13 ^{+0.08} _{-.004})
	Flare-in	0.8 (.031)	1.5 (.060)	0.4 (.016)	47-99-944-1F1	1.0 (.39)	5.0 (.20)	14.3 (.56)	10.1 (.40)	1 (.39)	5.1 ^{+0.1} ₋₀ (.20 ^{+0.04} _{-.000})	3.0 ^{+0.1} ₋₀ (.12 ^{+0.04} _{-.000})
4C	Press-in	0.9 (.036)	~	~	4C-PH-M3-1P0-K000	0.8 (.03)	3.8 (.15)	11.5 (.45)	8.5 (.33)	0.7 (.028)	5.6±0.04 (.219 ^{+0.03} _{-.000})	3.2 ^{+0.2} _{-0.1} (.12 ^{+0.08} _{-.004})
					4C-PH-M3-2P0-K000	2.5 (.10)	5.5 (.22)					
	Flare-in	0.8 (.031)	1.5 (.060)	0.4 (.016)	4C-PH-M3-1F1-K000	0.8 (.03)	3.7 (.15)	11.5 (.45)	8.6 (.34)	0.7 (.028)	4.8 ^{+0.08} _{-0.05} (.187 ^{+0.05} _{-.000})	3.0 ^{+0.2} _{-0.1} (.118 ^{+0.08} _{-.004})
					4C-PH-M3-2F1-K000	2.5 (.10)	5.4 (.21)					
47	Press-in	0.9 (.036)	~	~	47-99-828-1P0	0.8 (.03)	3.8 (.15)	11.2 (.44)	8.5 (.33)	0.7 (.028)	5.6±0.04 (.219 ^{+0.03} _{-.000})	3.2 ^{+0.2} _{-0.1} (.12 ^{+0.08} _{-.004})
					47-99-828-2P0	2.5 (.10)	5.5 (.22)					
	Flare-in	0.8 (.031)	1.5 (.060)	0.4 (.016)	47-99-829-1F1	0.8 (.03)	3.7 (.15)	11.5 (.45)	8.6 (.34)	0.7 (.028)	4.8 ^{+0.08} _{-0.05} (.187 ^{+0.05} _{-.000})	3.0 ^{+0.2} _{-0.1} (.118 ^{+0.08} _{-.004})
					47-99-829-2F1	2.5 (.10)	5.6 (.22)					



P7 ATCA Inject / Eject Mechanism

Guide pin

- **Bullet tip for better engagement**
- **Self-clinching style for easy installation**

Material and Finish

Stainless steel

Installation Notes

Edge of hole must be sharp do not chamfer.

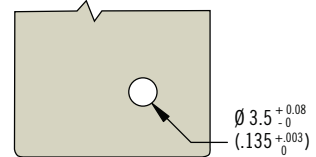
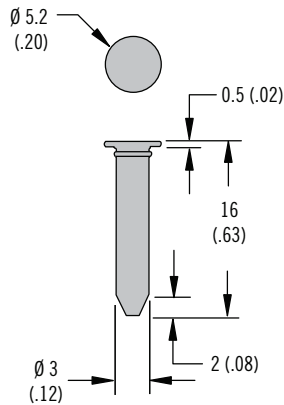
See page 405 for reference on usage of guide pin.

Self-clinching install details see page 497

Other options available. For complete details on variety, part numbers, installation and specification, go to



www.southco.com/P7



Part Number
77-0-40552



P7 ATCA

Mounting screws M 2.5

- **Accommodates all standard ATCA PC board thicknesses**
- **Vibration-resistant nylon patch**

Material and Finish

Steel zinc plated

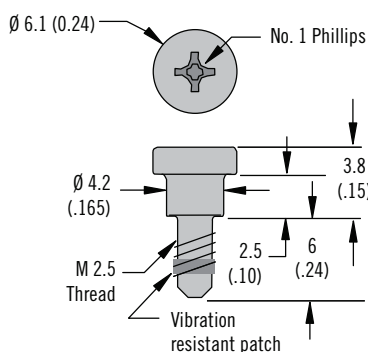
Installation Notes

Please refer to installation drawings on page 405 for reference on usage of mounting screws

Other options available. For complete details on variety, part numbers, installation and specification, go to



www.southco.com/P7

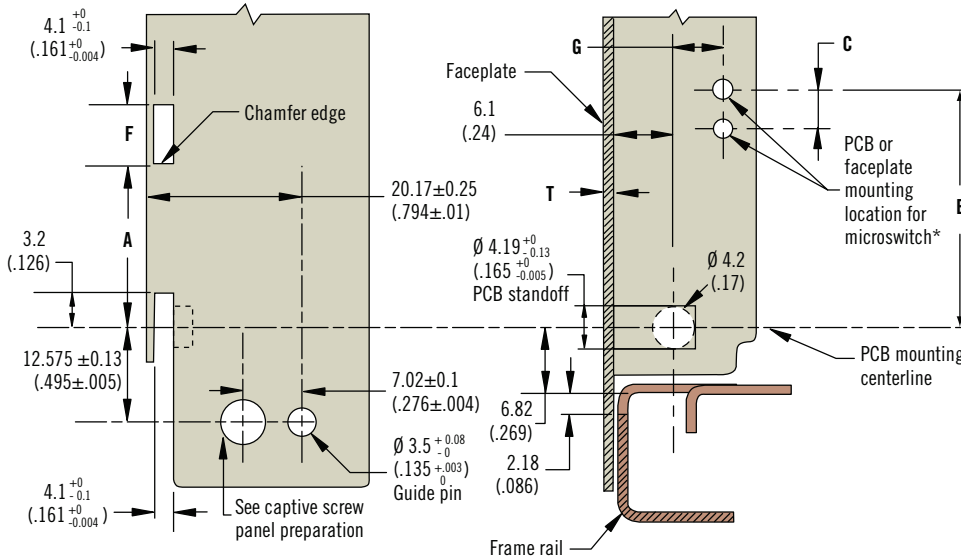
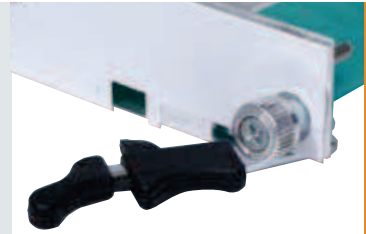


Part Number
P7-0-41665-1

Dimensions in millimeters (inch) unless otherwise stated

P7 ATCA Inject / Eject Mechanism

Faceplate panel preparation (with PCB mounting tab fabrication)



Installation Notes

Select ejector, guide pin and mounting screw part number. Select captive screw best suited to your application.

Notes

Faceplates generally require two ejectors, two captive screws, two mounting screws and two guide pins.

*Microswitch lever style operation ITT MD002 or plunger style operation ITT SD002

See page 403 for ejector selection

Installation Notes

See page 403 for B, Ø D and Ø Z dimensions.

Press-in:

1. Prepare panel as shown, do not chamfer edge.
2. Place standoff into installation hole.
3. Provide solid back-up behind hole with clearance hole for screw.
4. Press part into panel. Punch must not touch plastic knob during installation.

Recommended minimum distance from the panel edge to the centerline of the installation hole is 1.5 x Ø D. * For panels thinner than 0.9 (.036) contact Southco.

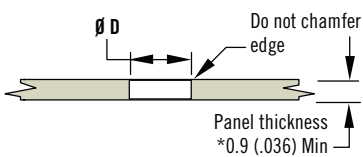
Flare-in

1. Prepare panel as shown.
2. Use light pressure to flare standoff, assuring parallel surfaces on the punch and installation tool. Installation force depends on screw size.
3. Punch cannot touch plastic during installation.

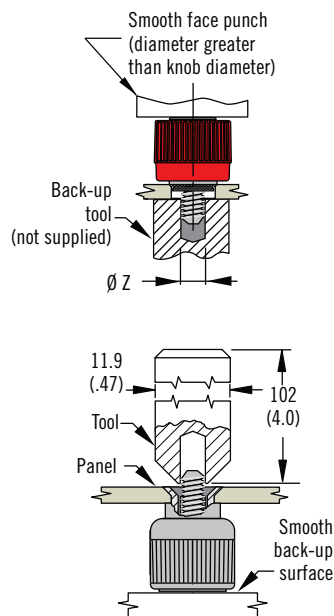
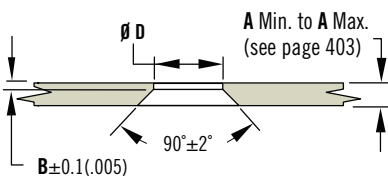
Switch Styles	Part Number	A	F	C	G	E	T
Lever	P7-A-513-11	22 (.866)	7.5 (.296)	4 (.16)	25.4 (1.0)	5.2 (.2)	0.8 - 1.5 (.031 - .059)
	P7-A-523-11	21.7 (.85)	7.8 (.31)				2 - 2.5 (.078 - .098)
Plunger	P7-A-533-11	20.2 (.795)	9 (.354)	3 (.12)	20.4 (.8)	1.9 (.07)	0.8 - 1.5 (.031 - .059)
	P7-A-543-11						2 - 2.5 (.078 - .098)

Captive Screw Panel Preparation and Installation (see page 403 for selection of captive screws)

Press-In



Flare-In



Flare-In Tool Part Number (M3 Thread Size)
47-104