

FEATURES

- Precisely locates stacked and/or mating panels and chasses.
- Self-clinching design provides permanent installation in panels 1.02mm thick.
- Wide range of pin diameters and lengths accommodates most alignment requirements. Custom sizes available by request.
- Choice of RoHS compliant materials and finishes.





PART DESCRIPTION EXAMPLE





GENERAL

		Sheet		ØAN	ØP	
Pin Size	Minimum Thickness	Hole Size +0.08 -0.00	Minimum Distance Hole Center To Edge	GPST GPSS	GPS4	+0.00 -0.08
M3	1.02	3.02	5.59	3.97	3.97	3.00
M4	1.02	4.01	6.35	4.76	5.00	3.99
M5	1.02	5.00	7.11	6.35	6.35	4.98
M6	1.02	5.99	7.87	7.14	7.14	5.97

All dimensions in millimeters

Pencom offers a large variety of guide pins. Consult the Pencom website or

needs.

contact an account representative to learn how Pencom can meet your alignment and fastening



LENGTH

	(L) Length Code +0.00/-0.25							
Pin Size	6	8	10	12	15	20	25	
	S Ref.							
M3	4.15	6.15	8.15	10.15	13.15	18.15	23.15	
M4	3.30	5.30	7.30	9.30	12.30	17.30	22.30	
M5	2.40	4.40	6.40	8.40	11.40	16.40	21.40	
M6	_	3.55	5.55	7.55	10.55	15.55	20.55	

All dimensions in millimeters

MATERIAL & FINISH

Matarial	Matarial	Finish	Einich	For Use in Sheet Hardness	
Code	Description	Code	Description	HRB 60 Max.	HRB 80 Max.
ST	Heat-treated Carbon Steel	Z	Zinc (SC1) with Type III Clear Chromate per ASTM B 633	•	
SS	300-Series Stainless Steel	Р	Passivate and/or test per ASTM A 967	•	
S4	Heat-treated Stainless Steel	Р	Passivate and/or test per ASTM A 967		•

When used in conjunction with Pencom captive screws, 3mm GP Guide Pins satisfy the requirements of PICMG 3.0 of the Advanced Telecom Computing Architecture (AdvancedTCA[®]) specifications for telecommunications rack equipment (www.picmg.org).

INSTALLATION

- 1. Punch or drill hole in sheet. Do not deburr edges.
- 2. Insert guide pin through hole in sheet and into the anvil, as shown.
- 3. Squeeze the sheet and guide pin head between parallel punch and anvil surfaces. Use only enough pressure to seat the guide pin head flush with the sheet.

ANVIL DIMENSIONS					
Pin Size	ØD				

Size	
МЗ	3.13/3.05
M4	4.12/4.04
M5	5.11/5.03
M6	6.10/6.02

All dimensions in millimeters





Guide pins can be used anywhere alignment between mating components is critical. All of Pencom's guide pins will mate with a punched or drilled hole. Greater performance can be achieved by using Pencom's GR Guide Pin Receptacle Nuts. Request flier PF-GR GUIDE PIN NUT or visit Pencom's website to create a complete alignment solution.



PERFORMANCE

Pin		1.02mm Test Sheet Material							
Size	Material Code	5052-H32 Aluminum		1008 Carbon Steel HRB 60		304 Stainless Steel HRB 80			
		Installation (kN)	Push-out (N)	Installation (kN)	Push-out (N)	Installation (kN)	Push-out (N)		
	ST		580	7.0-8.6	1230	(2)	(2)		
MЗ	SS	3.9-4.7				(2)	(2)		
	S4					15.4-18.8	1870		
	ST	3.9-4.7	670	7.0-8.6	1230	(2)	(2)		
M4	SS					(2)	(2)		
	S4					18.8-23.0	1870		
M5	ST	7.3-9.0	760	14.2-17.4	1480	(2)	(2)		
	SS					(2)	(2)		
	S4					27.3-33.4	2190		
M6	ST	7.3-9.0	860	14.2-17.4	1480	(2)	(2)		
	SS					(2)	(2)		
	S4					29.6-36.1	2190		

(1) Performance data represents the average destructive result when all installation specifications are strictly followed. Variations in panel hole size, thickness, material and installation methods will affect the loads. Values may not be consistent with loading in an assembly. Pencom strongly encourages testing in the application.

(2) Not recommended.

This information may be updated periodically. Contact Pencom for current information or see **www.pencomsf.com**