

Floating Access Hardware

Floating captive screw assembly

NEW!

Features and Benefits

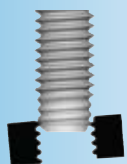
- ▶ Installs into any panel hardness.
- ▶ Universal slot/Phillips recess.
- ▶ Compensates for up to 1.52mm mating thread misalignment.
- ▶ Appropriate for close centerline-to-edge applications.
- ▶ Can be installed on painted surfaces.
- ▶ MATHread® anti cross-threading screw technology speeds assembly and eliminates failures.
- ▶ Type PF11MW™ meets “operator access area” requirements similar to UL 508.
- ▶ Type PF12MW™ meets “service access area” requirements similar to UL 1950.
- ▶ Available with DuraBlack™ finish.
- ▶ RoHS compliant.

Anti Cross-thread Technology – How It Works



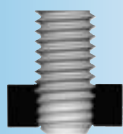
THREADS CAM:

As the threads come into contact, the patented anti cross-thread begins to cam over the female thread.



MISALIGNED AXIS:

This design offers users the benefits of self-aligning, anti cross-threading threads.



THREADS DRIVE NORMALLY:

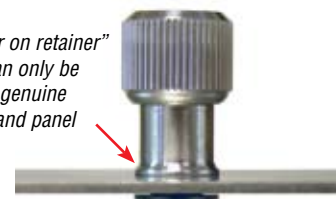
The design promotes alignment of the two thread helices. The fasteners drive easily with reduced effort.

MATHread® is a registered trademark of MATHread Inc.

PEM dimple trademark on screw end.

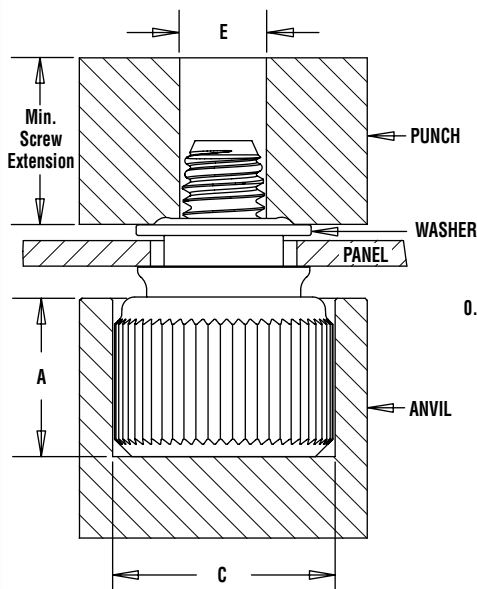


“Shoulder on retainer” feature can only be found on genuine PEM® brand panel fasteners.

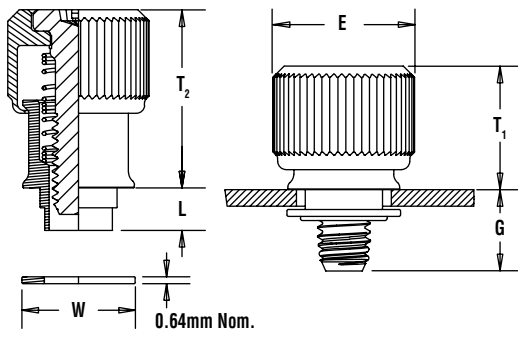
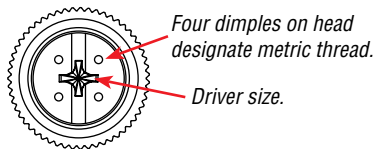


Installation

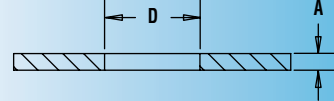
1. Prepare properly sized mounting hole in sheet.
2. Place fastener into recessed anvil and workpiece over shank of fastener. Then place the washer over the shank of fastener.
3. With punch and anvil surfaces parallel, apply swaging force with flaring punch.



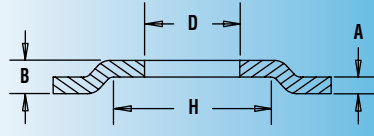
Thread Code	Anvil Dimensions		Punch Dimensions					Anvil Part Number	Punch Part Number
	A ±0.05 (mm)	C ±0.03 (mm)	E (mm)	F ±0.03 (mm)	G ±0.08 (mm)	H Min. (mm)	I ±0.1 (mm)		
M3	6.6	11.1	3.05	3.43	5.18	6.35	.381	8003521	8014304
M3.5	9.9	11.9	3.56	4.04	6.32	7.62	.381	8003522	8014305
M4	9.9	13.5	5.11	5.51	8.64	10.16	.711	8003523	8014306
M5	9.9	13.5	5.11	5.51	8.64	10.16	.711	8003523	8014306
M6	12.2	15.2	6.4	6.88	10.92	12.7	.711	8004351	8014307



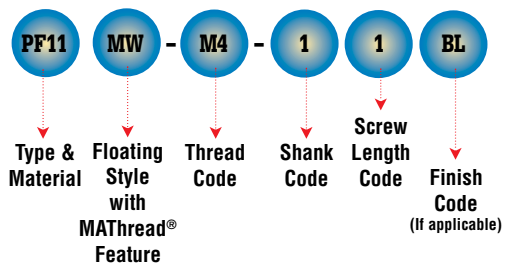
PANEL CONFIGURATION 1
For applications where a space between mating panels is acceptable.



PANEL CONFIGURATION 2
For applications where a space between mating panels is not acceptable.



Part Number Designation



Type PF11MW panel fasteners are shipped with mating washers.

All dimensions are in millimeters.

METRIC	Thread Size x Pitch	Type		Thread Code	Shank Code	Screw Length Code	A Max. Sheet Thickness	B Min.	D Hole Size In Sheet +0.08 -0.03	E ±0.25	G Nom.	H Min.	L Nom.	T1 Nom.	T2 Nom.	Driver Size	Min. Float	W Nom.
		Knurled Cap	Smooth Cap															
	M3 x 0.5	PF11MW	PF12MW	M3	1	1	1.6	2.82	6.35	10.59	6.6	9.52	3.48	7.87	11.94	#1	1.85	7.92
	M3.5 x 0.6	PF11MW	PF12MW	M3.5	1	1	1.6	2.92	7.19	11.43	7.37	10.49	3.78	11.43	16.26	#2	1.93	8.74
	M4 x 0.7	PF11MW	PF12MW	M4	1	1	1.6	3.07	8.79	13.06	7.37	11.91	3.99	11.43	16.26	#2	1.93	10.34
	M5 x 0.8	PF11MW	PF12MW	M5	1	1	1.6	3.07	8.79	13.06	7.37	11.91	3.99	11.43	16.26	#2	1.93	10.34
	M6 x 1	PF11MW	PF12MW	M6	1	1	1.6	3.25	10.49	14.61	8.89	13.48	3.99	13.46	20.32	#3	2.06	11.89

Performance Data⁽¹⁾

Type	Thread Code	Test Sheet Material	
		1.52mm Cold-rolled Steel	
		Swaging Force (N)	Pullout (N)
PF11MW PF12MW	M3	1557	499
	M3.5	1779	612
	M4	3114	897
	M5	3114	897
	M6	4003	945

(1) Performance values reported are averages when all installation specifications and procedures are followed. Variations in mounting hole size, sheet material and installation force will affect this data. Performance testing of this product in your application is recommended. We will be happy to provide samples for this purpose.

Material & Finish Specifications

Material:
 Knob: Aluminum
 Retainer: Aluminum
 Screw: Heat-treated Carbon Steel
 Spring: 300 Series Stainless Steel
 Washer: 300 Series Stainless Steel

Finish:
 Knob: Natural Finish (standard), Black anodize (optional)
 Retainer: Natural Finish
 Screw: Zinc plated, 5µm, colorless (standard),
 BL - Black nitride (optional)

RoHS compliance information can be found on our website.
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Specifications subject to change without notice.
 Check our website for the most current version of this bulletin.

PennEngineering®



North America: Danboro, PA 18916 USA • E-mail: info@pemnet.com • Tel: +1-215-766-8853 • Fax: +1-215-766-0143 • 800-237-4736 (USA Only)
 U.K. And Europe: Doncaster, England • E-mail: uk@pemnet.com Tel: +44 (0)1302 765700 • Fax: +44 (0)1302 367580
 Asia/Pacific: Singapore • E-mail: singapore@pemnet.com • Tel: +65-6-745-0660 • Fax: +65-6-745-2400
 Shanghai, China • E-mail: china@pemnet.com • Tel: +86-21-5868-3688 • Fax: +86-21-5868-3988

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