Fasteners with Unique ‘Float’ Capability Attach Quickly and Promote Design Flexibility

PEM® fasteners with unique “float” capability enable easier mating-thread alignment during attachment and promote design flexibility for relaxed tolerance applications. The family of floating fasteners includes captive panel screws (Types PF11MW™ and PF12MW™) and self-clinching nuts (Types AS, AC, LAS, LAC, A4, and LA4). All install easily and permanently in thin sheets.
Floating captive panel screws (Type PF11MW with knurled cap and Type PF12MW with smooth cap) reliably install into metal or non-metal panels as thick as 0.63” /1.6mm, enable subsequent access to an assembly, and compensate for up to .060” / 1.52mm mating hole misalignment. Patented MAThread® anti-cross threading technology corrects off-angle installations, aligns components, and slides through clogged internal threads, and a shoulder on the retainer portion of the fastener helps simplify installation. Thread sizes range from #4-40 through ¼-20 and M3 through M6 and available options include a scratch-proof DuraBlack™ finish. Assorted colored plastic caps are also available.

Floating self-clinching nuts can be specified with non-locking threads (Types AS, AC, and A4) or self-locking threads (Types LAS, LAC, and LA4). They provide permanent load-bearing threads in metal sheets as thin as .038” / 0.97mm and permit a minimum of .030” / 0.76mm adjustment for mating hole misalignment. Their unique design allows the fastener’s threads to extend fully into the retainer shank to impart added strength and support in an assembly. Thread sizes range from #4-40 through 1/4-28 and M3 through M6. Types A4 and LA4 fasteners specifically are designed for use in stainless steel sheets.

Detailed specifications for these RoHS-compliant floating fasteners (Bulletin PF for

captive panel screws and Bulletin ALA for nuts) and free part drawings (PEM CAD Library) can be downloaded at www.pemnet.com [1].

PennEngineering
5190 Old Easton Road
Danboro, PA 18916-1000
Phones: 800-237-4736 (toll-free in the U.S.) or 215-766-8853
Fax: 215-766-0143
Web site: www.pemnet.com [1]

Source URL (retrieved on *12/29/2014 - 6:42am*):
http://www.mdtmag.com/product-releases/2011/12/fasteners-unique-%E2%80%98float%E2%80%99-capability-attach-quickly-and-promote-design-flexibility?qt-most_popular=0

Links:
[1] http://www.pemnet.com/