POST-2 Double-Ended Distribution Post

This one is a little trickier - but the use of this post is recommended for when you have to pass a large lead through a bulkhead (like your firewall.) This does require using two leads, vice one, but you don't have to worry about the edges of the hole in your panel wearing through your feedline and causing a dead short circuit. This post is rated for a maximum load of 250A at 48VDC, per the manufacturer.

This actually requires drilling *three* holes in the bulkhead - one 7/8" hole to pass the main portion of the distribution block, and two holes to pass #10 screws (.220", #10 screws have a nominal diameter of .190") to mount the thing. The mounting screws are on 1¼" centres, with the large 7/8" hole acting as the centre of the group (this should become clear once you see the pictures below.) It is also possible to ream the holes to pass a ¼" screw (final ID to be .255-.260" or thereabouts.)

There are two sides to this distribution post - one side will sit flush, and the other is raised about $^{1}/_{3}$ of an inch from the mounting base. This "raised" side is the side that will go through the firewall/bulkhead, thus protecting the passage of current. Note that the "flush" side does *not* have any sort of protection against the cable contacting the mounting screws - thus, it is recommended that you either use non-metallic screws (which are often used for this very purpose) or that you take care to route the cable exit away from the two mounting screws. It is also possible to countersink the screw holes and use a "flat head" screw, which will then end up flush or slightly recessed into the surface of the block.

Care should be taken to mount the stud as high as practical. It is also possible to use a gasket around the stud as an environmental seal, but such as not been designed yet. The difference between the OD of the "through" base and the nominal ID of the pass-through hole is .004" - not very much, but enough that you could get your feet wet. It is also possible to use silicone/RTV sealant to seal the stud against weather. RTV Black or Auto Glass Sealant should serve for this purpose.

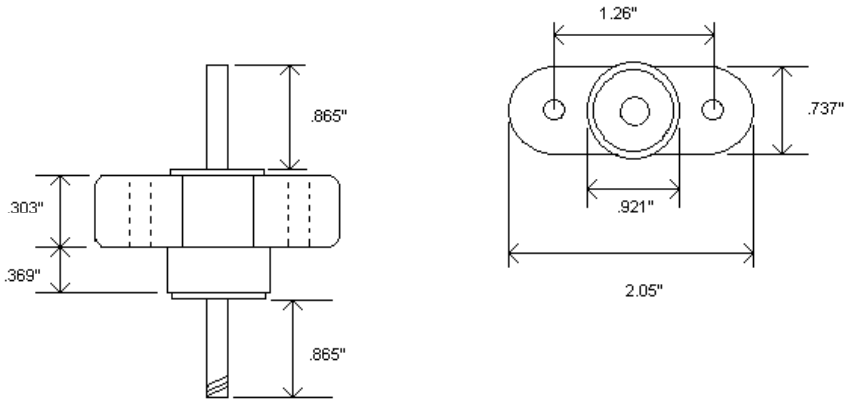

Image courtesy of manufacturer. Drawing not to scale.

Kelley's Works in Progress