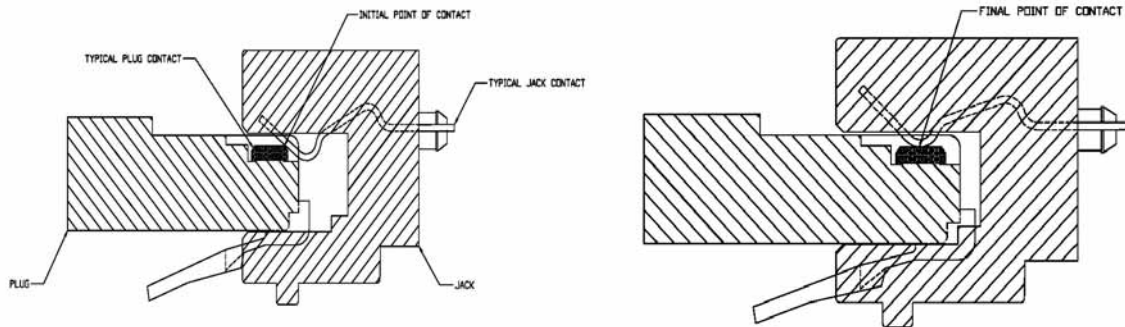


## Power over Ethernet POWER SAFE pin Configuration



SMP Power Safe pins are designed into all SMP products so that when DC power is on and the cord is unplugged, there may be some arcing at the contact interface at the last point of contact. This is because the inductance of the cabling/power supply wants to keep the current flowing. By having the mating point at a different location on the contact than the make-break point, the data connection integrity is maintained. Rather than try to prevent the arc, which cannot be done, SMP has allowed an area on the contact to accept the arc and permit the point of data connection to occur on an undamaged surface.

Therefore, SMP chose to not manufacture mid-span powered patch panels. ***The concept of a mid-span panel simply introduces another component making the closet more cumbersome.*** Furthermore, this product would have led SMP into an area outside of our primary mission of manufacturing the best "passive" connectivity components in the business. We chose to make accommodations in our product designs to allow the power to be added by the switch manufacturer, the source for signals both data and power, without damaging the cabling system.

This is an issue that SMP addressed over two years ago thanks to our own, Sterling Vaden and his involvement with IEEE.