



Through Bulkhead SurLok™

BACKGROUND

Power sometimes needs to be passed through a bulkhead in a reliable, cost effective and environmentally sound manner. Multiple circuits can be passed through a bulkhead via a multi-pin circular connector which will satisfy most harsh environment applications. Single circuit power requirements inside a sealed chamber needs to be handled in a more cost effective manner.

PROBLEM

This specific application required a single 4 awg power circuit to be carried through an internal bulkhead within a sealed chamber. The cable needed to be unmated from either side of the panel without compromising the environmental integrity of the chamber itself. The 4 awg cable assembly needed to have a positive locking feature and had to accommodate a 90° angle of entry to the mating pin.

AIO SOLUTION

Our solution was to develop a double ended 5.7mm SurLok™ with a receptacle flange similar to circular connectors. An o-ring between the receptacle and panel ensured environmental integrity was maintained. The RADSOK® SurLok™ locks into place easily yet requires 10 – 15 lbs. of force to remove. Plastic covers can easily identify different circuits or positive/negative terminals. The SurLok™ has a wide variety of wire sizes and amperages that will fit most power applications in the field.