

HV Distribution Bus in a Resistive Cathode Module

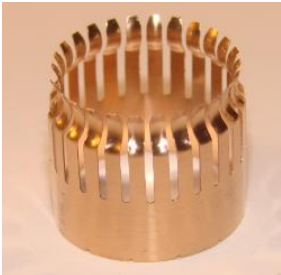
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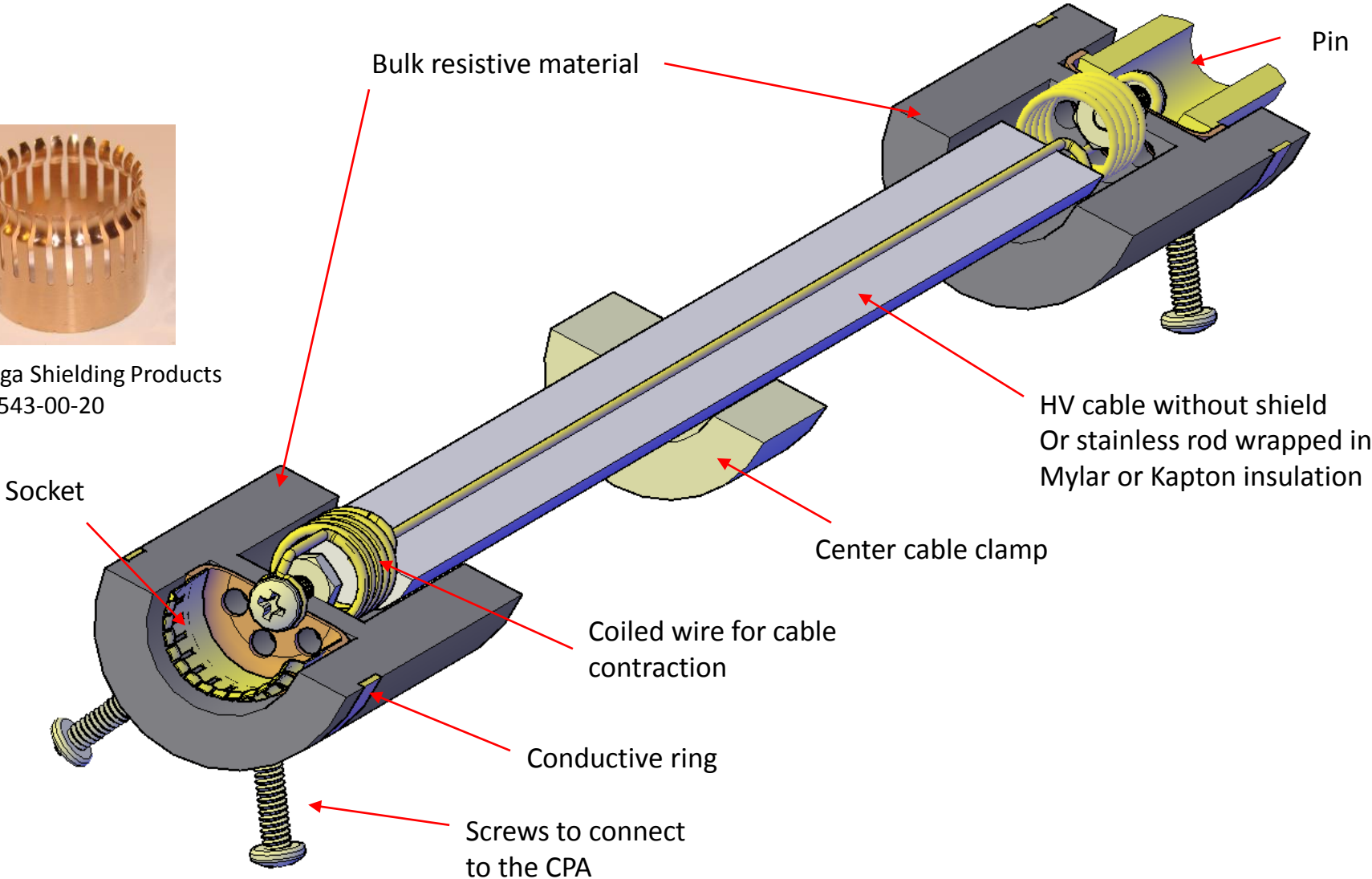
Need to have a HV Distribution Bus

- With an high resistive cathode, we need a low resistance connection to each of the field cage dividers so that there is no accumulative voltage drop along the 60m long cathode.
- A HV distribution bus is inserted into the outer edge tube of the CPA, and the vertical tubes at the ends to form a conductive ring around the entire cathode
- It is preferable to have a resistive connection between the HV bus and each of the CPA module to restrict energy transfer
- It is assumed that this bus is inserted into the outer tube of the CPA, which is resistive with metal tube sections at ends

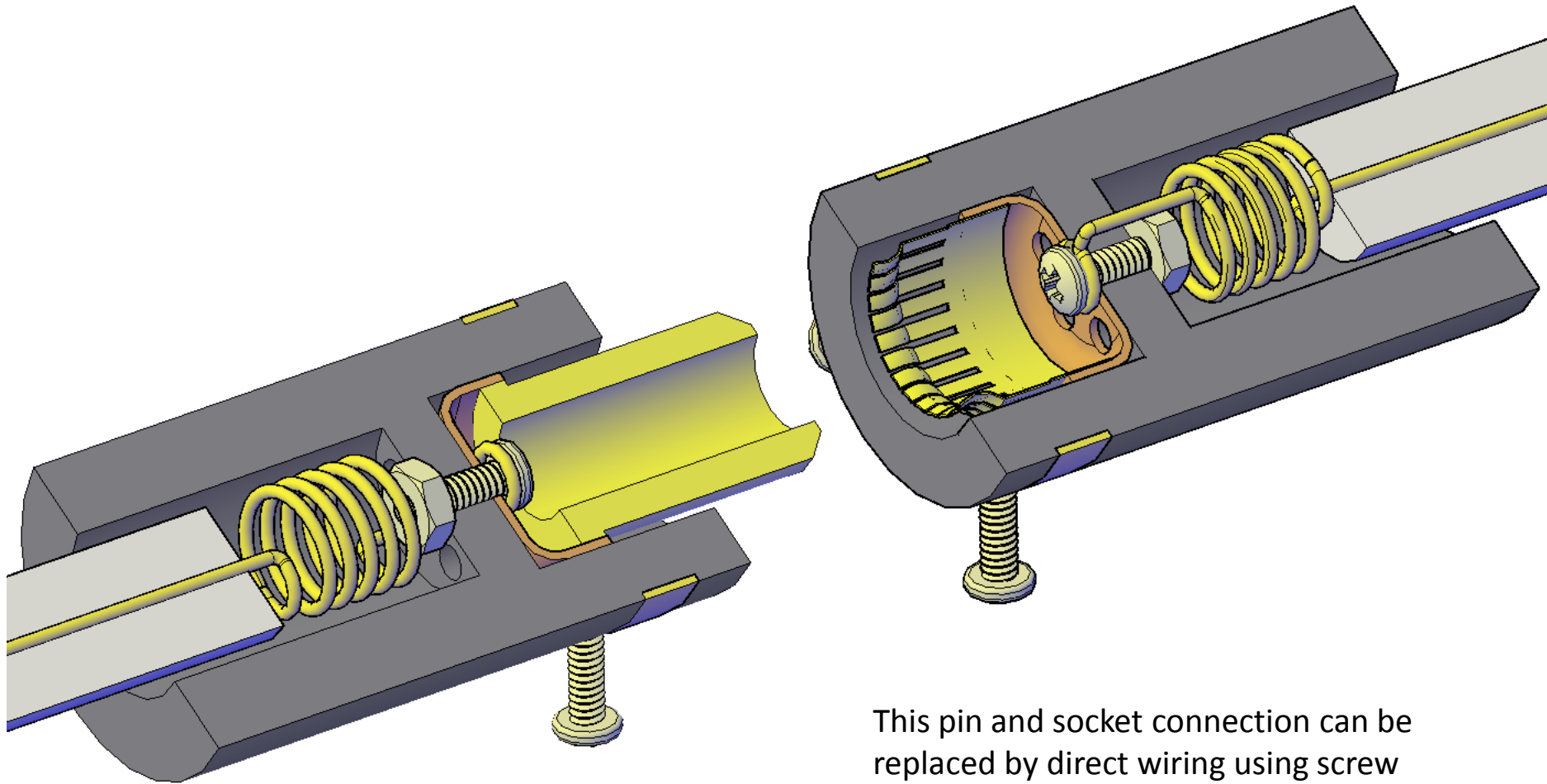
HV Distribution Bus Concept



Omega Shielding Products
099-543-00-20



HV Distribution Bus Concept, details



This pin and socket connection can be replaced by direct wiring using screw terminals with service loops tucked in the end pockets.