

## Kryoflex Hermetic Sealing

Kryoflex® polycrystalline ceramic a multiple-phase derivative of ceramic oxide crystalline silicates. It is a proprietary, patented substance developed by Qnnect as a direct replacement for conventional compression glass and metalized alumina ceramics.

Chemically active Kryoflex provides, by means of oxygen pinned valence bonding, a direct union during the fusion processing of a ceramic-to-metal entity. This unchanging chemical and mechanical bond is enhanced by Kryoflex's randomly organized crystalline structure, which allows this unique material to relieve stresses within itself.

### Electrical Performance

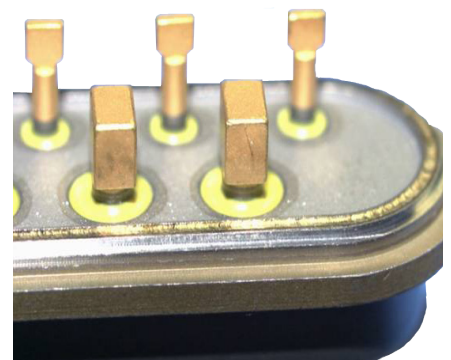
Electrical properties of Kryoflex include resistivity of up to  $1.5 \times 10^{19}$  ohms/cm, with easily maintained resistance values exceeding 50,000 megohms — even in micro-miniature designs. Stand-off voltage capability is such that breakdown will always occur in the air media surrounding the terminal ... never through the dielectric.



### Rugged Seal

Kryoflex technology allows you to choose connectors, feedthrus, and electronic packaging literally custom-built to withstand extremes of temperature, pressure, harsh environments, and hazardous chemicals that destroy lesser materials.

The Kryoflex family of materials has adjustable coefficients of linear expansion, allowing application to a huge variety of shell and conductor materials.





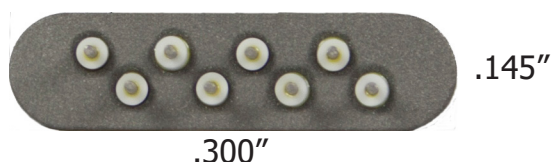
**For More Info:**  
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No formers are added, so this material remains useful as an insulator from -400°F to +1,400°F with no loss of hermetic integrity.

Because Kryoflex seals directly to pins of copper and its alloys, PA&E connectors and feedthrus have up to 70 times the current-carrying capacity of competing products. When used with aluminum, Kryoflex permits hermetically-sealed connectors to be both robust and lightweight, while using copper conductors. [For applications requiring greater strength, Kryoflex works well with titanium, stainless steel or Inconel® shells along with platinum, platinum-clad titanium, or Inconel pins.]



### Medical Components



Hermetically sealed ceramic-to-metal terminals and connectors used in implantable life-support devices, hearing restoration components, vital organ synthetic drug secretion devices and bone growth stimulator, all manufactured for implant into the human body.

### Energy Products

Hermetically sealed connectors and feedthru terminals for deep-well oil exploration and other applications where electronics must operate under extreme temperature and pressure, while maintaining both hermetic seal and superior electrical performance

### Space & Aerospace Products

High-end hermetically sealed connectors and related products – both standard and custom – including Sub-D, Micro-D, Jr.-D connectors and feedthrus.

### Electronic Packaging

A wide variety of custom turnkey housing assemblies made from aluminum, titanium, titanium/CuMo, Fe/Ni alloys, stainless steel and more.