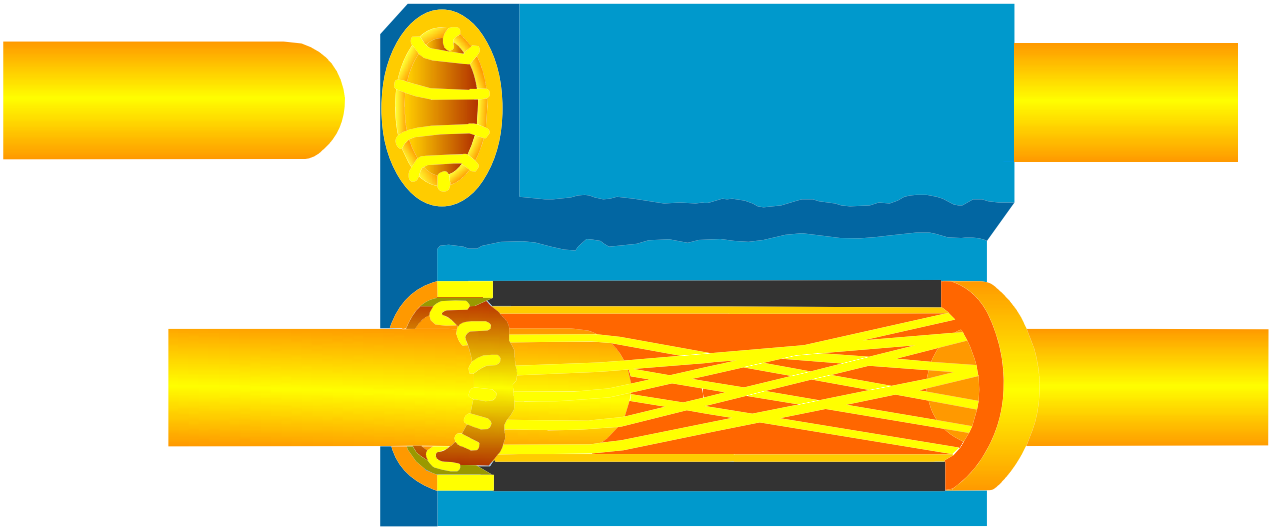
THE HYPERTAC CONTACT TECHNOLOGY



Hypertac ® (HYPERboloid conTACt) is an advanced design that satisfies performance requirements previously considered impossible.
The socket is constructed from a series of Beryllium copper wires helically wound utilising an automated process and then pressed into any one of thousands of standard contact bodies.
When the pin is inserted into this socket, the wires stretch to accommodate it. In so doing, they wrap themselves around the pin providing a number of linear contact paths.

THIS SUPERIOR MATING PRINCIPLE OFFERS SEVERAL ADVANTAGES:

- **Higher contact ratings**
  The design parameters of the Hypertac® socket (e.g., the number, diameter, and angle of the wires) may be modified for any requirement. The low contact resistance results in low heat build up.

- **Excellent shock & vibration performance**
  The low mass and low inertia of the wires enables them to follow abrupt excursions of the pin without loss of contact. Moreover, the contact area extends 360° around the pin and is uniform along the length.

- **Very low insertion & extraction force**
  The controlled angle of the socket wires allows tight control of the pin insertion and extraction forces.

- **Lower contact resistance**
  The multiple line contacts in the Hypertac® socket provide far greater contact area than other contacts of comparable size.Tests have shown Hypertac® have about 1/2 the resistance of conventional contact designs.

- **Long contact life**
  The smooth and light wiping action produces little wear of the contact surfaces. Hypertac® contacts have been tested to over 100,000 insertion and extraction cycles with minimum wear.