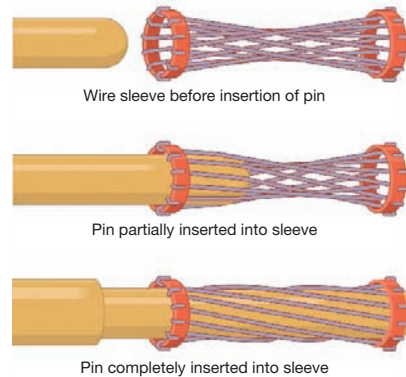


Superior Contact Design

Hypertac® is an advanced contact design that satisfies performance requirements previously considered impossible. The shape of the contact sleeve is formed by wires strung at an angle to the socket's axis. When the pin is inserted into this sleeve, the wires stretch around it, providing a number of linear contact paths.

The superior design of the Hypertac contact system offers several features and benefits.



Feature

Low Insertion/Extraction Forces

The controlled angle of the socket wires allows tight control of the pin insertion and extraction forces. The spring wires are smoothly deflected to make line contact with the pin.

Long Contact Life

The smooth and light wiping action minimizes wear on the contact surfaces. Hypertac Contacts perform up to 100,000 insertion/extraction cycles with no degradation in performance.

Lower Contact Resistance

Hypertac multiple line contacts provide far greater contact area than other contacts of comparable size. The wiping action of the wires insures a clean and polished contact surface. Tests have shown Hypertac contacts have about half the resistance of conventional contact designs.

Higher Current Ratings

The design parameters of the Hypertac contact may be modified for any special requirement. For example, the number of wires can be increased in order to distribute the contact area over a larger surface of the mating pin. Thus, the high current carried by each wire because of its intimate line contact, can be multiplied many times.

Immunity to Shock and Vibration

The low mass and low inertia of the wires enable them to follow the most abrupt or extreme excursions of the pin without the loss of contact. The contact area extends 360° around the pin and is uniform over its entire length. The 3 dimensional symmetry of the Hypertac contact design guarantees electrical continuity regardless of the direction or intensity of external or internal forces.

Benefit

High Density Interconnect Systems

Significant reductions in size and weight of sub-system designs can be achieved by employing Hypertac high density connectors with a large number of contacts that do not require additional hardware to overcome mating and un-mating forces.

Low Cost of Ownership

Hypertac is ideal for applications that require frequent connector mating cycles, thus eliminating the burden and cost of having to replace the connector or the entire subsystem.

Low Power Consumption

The lower contact resistance of the Hypertac contact results in a lower voltage drop across the connector which reduces the power consumption and heat generation within the system.

Maximum Contact Performance

The lower contact resistance of the Hypertac reduces heat build up; therefore Hypertac contacts are able to handle far greater current in smaller contact assemblies without the detrimental effects of high temperature.

Reliability Under Harsh Environmental Conditions

Harsh environmental conditions require connectors that will sustain their electrical integrity even under the most demanding conditions such as shock and vibration. Hypertac provides unmatched stability in demanding environments when failure is not an option.