

Why Z-AXIS

Z-Axis produces connector elements that are flexible both in terms of the material from which they are produced and in terms of their versatility. Apart from the ability to adapt them to a wide range of applications, the following technical advantages can be shown:

Solder-Free Connections

Z-Axis connectors require no soldering which prevents faulty bridging of pads, poor pad coverage, flux-bleed and operational issues such as shock or vibration and temperature cycling.

On-Site Maintenance

Due to the elimination of a soldering process the connectors can be easily removed and replaced. This makes it ideal for test connections and, conversely, permits enhancement of retention for extra security.

High-Density Contacts

Z-Axis connectors play a critical role in allowing miniaturization by reducing spacing of I/O.

Standard Wire thickness & Spacing: 0.05 mm > 0.10mm centerlines

Close Spacing: 0.05mm > 0.75mm centerlines

Extra-Thin Wires: 0.025mm or 0.018mm

Custom-Made: Dedicated wires customized (variable) spacing

Connector Registration

The Z-Axis connectors can be inlaid using optical or mechanical registration features.

Main Board Simplification

Z-Axis enables a reduction of part counts, renders fragile pins redundant and eliminates soldering and delicate connector parts. This can be employed in main board technology by simply equipping the product with a suitable I/O pad pattern.

Ease of Assembly

Z-Axis connector elements can be assembled by hand or robotically. A retaining slot or similar arrangement traps and compresses the elastomeric material and forms a connection. It's that simple.

Low and Stable Resistance

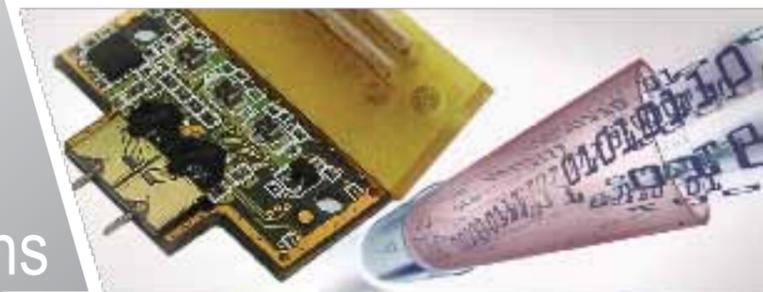
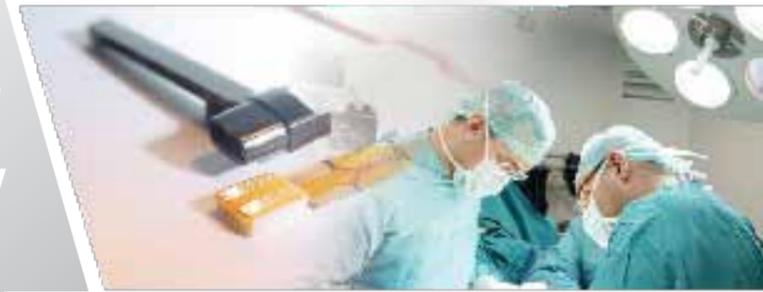
The Z-Axis connectors have a multi-wire array molded into an elastomeric core which provides a low initial resistance remaining unaffected by variations in the depth of compression or by the number of mate/de-mate cycles.

Mixed Signal-Power Contacts

One Z-Axis connector element can improve board real estate usage by adapting the size of the pads on the substrates to be connected. Varying amounts of contacts can be made with the same connector.

Z-AXIS Connector Solutions

Cellular
Military
Aerospace
Medical
Automotive
Communications



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Discover a new dimension where parallel lines connect

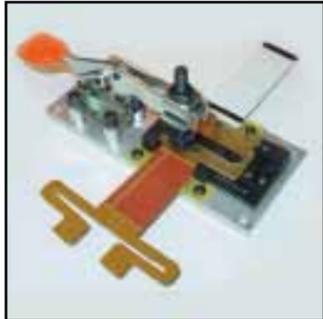


Z-AXIS Applications

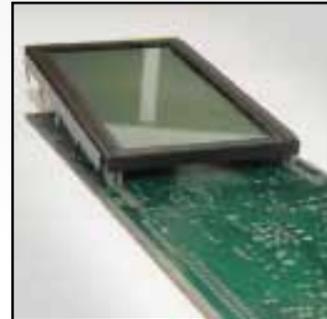
Z-Axis will solve your connector problems with fully-engineered designs which can offer the following benefits:

- > Rapid prototyping
- > Low-cost customized connectors
- > Enhanced reliability of connections
- > Enables miniaturization
- > Trouble-free assembly
- > Absorption of mechanical shock

We present here some of the applications based on customer requests:



Test Fixtures / Test Sockets



LCD Module Connectors



Custom Area Array
Connectors and Sockets
(LGA BGA)



Medical Device Connections



Chip on Glass (COG) / LCD
Module / Flat Panel Display
Connectors



Custom Micro Miniature
Connectors



Military, Avionic and
Aerospace Applications



PCB Connectors / Parallel
Board Connectors /
Mezzanine Connectors

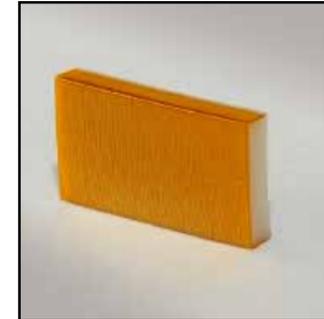


Flat Flexible Cable (FFC)
Connectors

Z-AXIS Products

Z-Axis offers the market a revolutionary elastomeric connector material built from tightly-spaced parallel rows of filaments embedded in a silicon case.

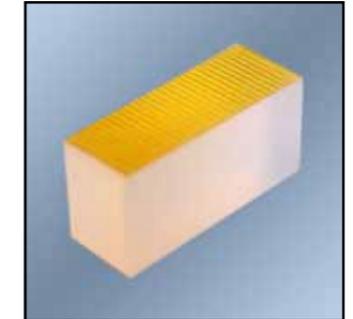
The material is available in a variety of geometries which permit its introduction into a myriad of new applications.



Z-Fill



Z-Wrap



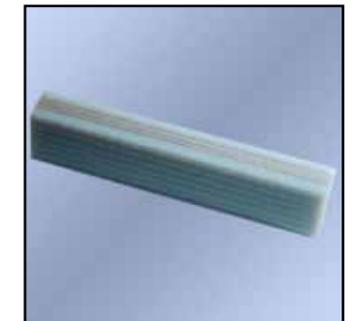
Z-Flat



Z-Round



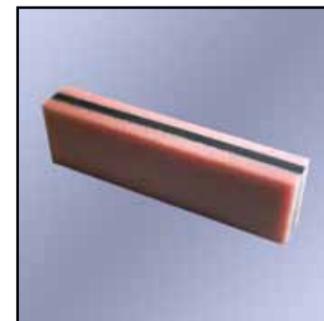
Z-Con



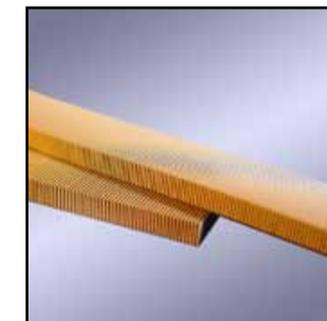
Z-Thru

In addition, sections can be fitted into standard or customized Universal Flex Test Fixture to replace awkward, oversized and fragile existing connectors.

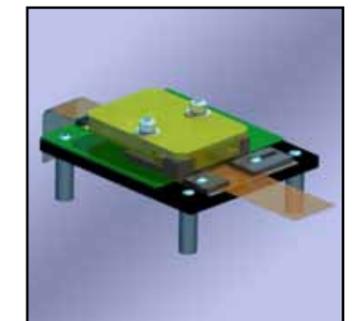
Silver and Carbon filaments are also produced for specific uses such as LED displays....



Z-Carbon



Z-Silver



Universal Flex Test Fixture