

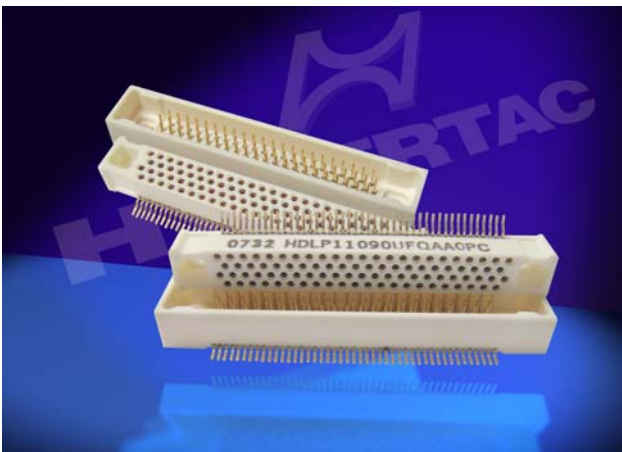
News release

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Connectors increase interconnection density in harsh environments

Low insertion force connectors for space-constrained applications



The new low profile, high density HDLP range of rectangular PCB connectors from Hypertac are designed for use in space-constrained applications that require low mating force, a high number of mating cycles, low and stable contact resistance, and excellent fretting corrosion resistance. With IP67 sealing when mated, the HDLP series is particularly suitable for missile guidance and propulsion systems, ruggedised computer systems, camera or display applications, and communications panels and enclosures.

Available in variants that include PCB-to-PCB, PCB-to-flying-lead and PCB-to-flex, the HDLP series is designed to reduce the PCB real estate necessary for making data connections. PCB-to-PCB options include stacking and card-edge versions, for even greater flexibility. The connectors include an interfacial seal and encapsulated contacts to achieve a high level of sealing, with optional conformal coating available to provide further environmental integrity.

The HDLP series uses Hypertac's hyperboloid contact technology to reduce contact resistance and achieve low mating/unmating forces. The resulting connectors exhibit excellent reliability, even under high levels of shock and vibration. They are specified to withstand over 2000 mating cycles, allowing thorough system testing, quick and reliable maintenance and overall lower cost of ownership. The

excellent current handling capabilities of the hyperboloid technology (up to 1A per contact at 110V DC) allow higher density of interconnection than is attainable using other systems.

All of the connectors in the HDLP range are available in surface mount or through-hole versions. The devices are designed to be assembled using automated pick-and-place machinery, reducing production costs and providing good design for manufacture characteristics. A polarised reinforced thermoplastic insulator eliminates mis-mating. Standard HDLP connector configurations are 30-, 58-, 90- and 118-ways.

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About Hypertac

Hypertac is a leading supplier of high reliability, high performance interconnect solutions and electrical/electronic connectors. The company has particular expertise in the rapid development of innovative interconnect solutions for high reliability applications in military, aerospace, industrial, mass transit, test & measurement and medical electronics markets.

The Hypertac range includes filtered ARINC and circular connectors, modular types and printed circuit board connectors. Hypertac connectors achieve outstanding performance through the use of patented Hyperboloid contacts.

About Hyperboloid contacts

Hypertac hyperboloid contact is an advanced design that satisfies the most demanding performance requirements. The shape of the contact sleeve is formed by wires strung at an angle to the socket axis. When the pin is inserted into the sleeve, the wires stretch around it, providing a number of linear contact paths.

This ensures high reliability, a high number of mating cycles, shock and vibration immunity, low contact resistance and low insertion and extraction force.