

## News release

Innotrans Berlin September 2006

Hall 1.1, Stand no. 150

For immediate release



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## Hypertac DIN41612 connectors eliminate fretting in mass transportation applications

*Designed to DIN41612 for data, power or co-axial interconnection*



Hypertac's range of DIN41612 (IEC60603-2) PCB connectors are ruggedised to satisfy the demanding requirements of transportation applications. Based on the company's proven Hyperboloid contact technology, these shock and vibration proof connectors eliminate fretting, and are designed for data, power and co-axial connections.

Transportation applications – and particularly mass-transport – present the most exacting requirements for any equipment, in terms of resistance to shock, vibration and long-term corrosion. At the same time, PCB interconnections in electronic racks are often mission-critical to communications systems and power supplies. The use of the Hyperboloid contact design dramatically reduces overall wear rate and the fretting that can lead to long-term corrosion damage, making these connectors highly suitable for use in mass transport rolling stock, signalling and line-side electronic equipment, military/aerospace and naval applications.

The connectors, designated the HDB, HDC, HDD, HDS and HDT series, are available in two- or three-row formats with a maximum of 192 positions. Designers can choose between two pin pitches – 2.54mm and 5.08mm. The HDT style offers mixed contact arrangements that combine signal, power and up to 12 co-axial contacts.

Pin diameters of 0.6mm, 1.0mm and 3.6mm offer (respectively) contact resistance of 7m $\Omega$ , 3m $\Omega$  and 1m $\Omega$  maximum, and current handling capabilities of 4A, 7.5A and 10A. This

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exceptional performance allows more current carrying capability within a given space envelope, bringing space savings and simplifying design.

Thanks to the use of Hyperboloid contact technology, the connectors can endure in excess of 2000 mating cycles with no adverse effects and are rated for use across the -55°C to +125°C temperature range. In addition to conformance with industry standard DIN 41612, this connector range is designed to sustain electrical integrity under the most demanding conditions of extreme shock and vibration.

To provide further design flexibility, the Hypertac DIN41612 range of connectors is available in a choice of board- or panel-mounted formats and as a free connector with plastic cover. Other accessories include Double Eurocard aligners: custom requirements can be accommodated on request.

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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 printed circuit board connectors, modular, rectangular, filtered ARINC and circular connectors. Hypertac connectors achieve outstanding performance through the use of patented 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.