

News release

Deggendorf, November 2008

For immediate release

Hypertac GmbH

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High Reliability M12 interconnect system

New M12 series with Hypertac® hyperboloid contact technology

Within industrial automation, there is a trend to miniaturisation: the design of motors, electrical drives and adjuster units are becoming lighter and smaller. The challenge for the designers is to guarantee higher transmission reliability, while maintaining the same data transfer volume and avoiding any transmission interruption and correspondingly higher risk to the entire system.

Hypertac has developed its new M12 interconnect system especially for those applications. The new signal connectors fit perfectly into sensitive industrial applications working under shock and high vibration impacts, where failure is not an option and expensive proximity switch breakdowns are not acceptable.

Hypertac M12 interconnect system is built on the unique Hypertac® hyperboloid contact technology. The shape of the contact is formed by hyperbolically arranged contact wires, which align themselves elastically as contact lines around the pin, providing a high number of linear contact paths. The inherent electrical and mechanical characteristics ensure unrivalled performance in terms of number of mating cycles, shock and vibration immunity, long life and low rate of wear, low insertion and extraction force, low contact resistance (<0,05 mOhm) and high current rating (up to 9A). The Hypertac M12 series has been designed to match smaller space with exceeding performance and higher reliability.



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Following types of Hypertac M12 series are available:

- 3way connectors, unshielded/shielded, for wires 0.25 mm² to 0.75 mm²
- 4way connectors, unshielded/shielded, for wires 0.25 mm² to 0.75 mm²
- 5way connectors, unshielded/shielded, for wires 0.25 mm² to 0.34 mm²

Cable qualities are standard PUR and PVC.

Hypertac new M12 interconnect system covers various designs: Female and male cable connectors - straight or right angled, female and male receptacles, and also extension cords. Furthermore, special types and configurations can be developed to meet bespoke customer requirements. The M12 series meets sealing to IP67 when mated.

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