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FOR FURTHER INFORMATION VISIT  
[www.hypertronics.com](http://www.hypertronics.com)



WHEN FAILURE IS NOT AN OPTION



## HTT SERIES

## HIGH TEMPERATURE CONTACTS

- Ultimate Reliability
- Operating Temperatures in Excess of 440° C
- Multiple Points of Contact
- Corrosion Resistant
- Available in Standard and Custom Form Factors

**smiths**  
bringing technology to life

HTT Series contacts are high temperature resistant versions of the ultra reliable Hypertac® hyperboloid contact technology. Made from corrosion resistant materials that enable continuous operation in extreme environments well above 400° C ambient, HTT Series contacts are ideal for mission critical interconnect systems within thermic environments.

With the proven performance of Hypertac sockets, HTT Series contacts can significantly outperform and outlast any previous high temperature contact option. Engineers can now select contacts which are both immune to harsh shock and vibration conditions and are capable of dwelling in a wide range of high temperature states.

Able to withstand numerous thermal cycles, HTT Series contacts behave consistently in ambient conditions from -65° C to 440° C with no appreciable performance degradation.



Whether the thermal environment is composed of rapid heating and cooling as in landing gear, brake systems and weapon discharges, or is characterized by long durations as in aircraft engines, gas turbines and down-hole drill rigs, HTT Series contacts ensure electrical connectivity when failure is not an option.

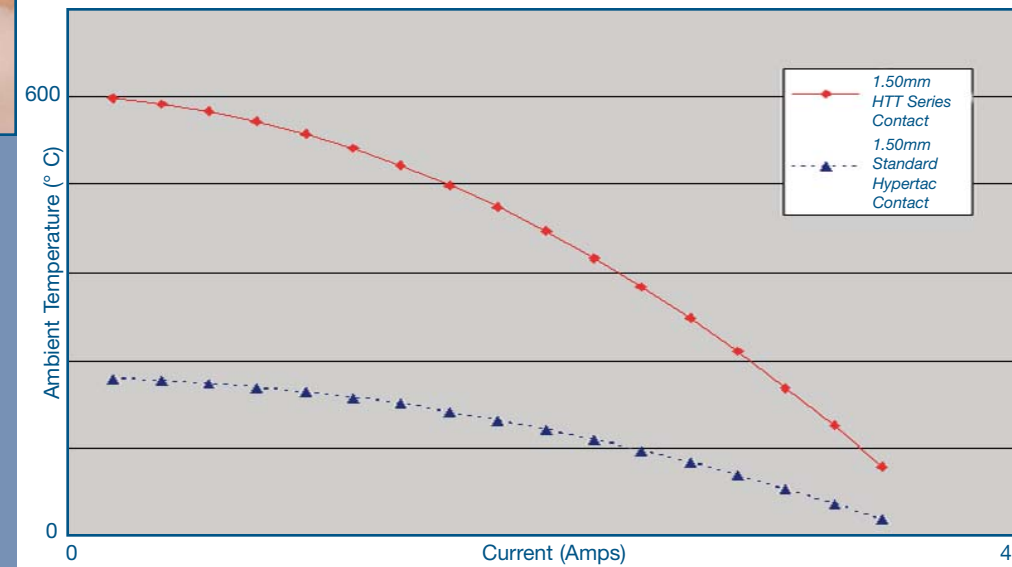
For decades, military, aerospace and industrial engineers have trusted Hypertronics to provide interconnect solutions for the most demanding applications. Now Hypertronics extends its proven reliability for rugged solutions capable of defeating the most extreme environmental conditions by introducing the HTT Series for high temperature demands.

HTT Series contacts have been extensively tested to demonstrate their superior benefits in thermal conditions. The contact type comparison table (at right) details the difference between an HTT Series contact and a standard Hypertac contact. Given a 10 Amp current rating, an HTT Series contact operates continuous at 440° C while a standard Hypertac contact is limited to 180° C.



## Ultimate Reliability

- Operating temperatures in excess of 440° C
- Corrosion resistant
- Proven Hypertac technology
  - Multiple points of contact
  - Immune to severe shock and vibration
  - Self-cleaning wiping action
- Ideal for critical high temperature applications such as:
  - Rocket, jet and turbine engines
  - Industrial machinery
  - Oil and gas exploration
  - Armament and fire control
  - Mining and geological survey
  - Power generation



Testing based on MIL-STD-1344A with thermal cycles lasting hundreds of hours.

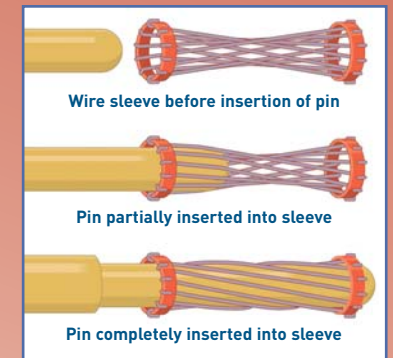
Contact Type Comparisons (Per Contact)		
Performance Parameter	Standard 1.50mm Hypertac Contact	HTT Series 1.50mm Contact
Resistance, LLCR	< 2.5 milliohms	10 milliohms
Current Rating	8 - 10 Amps	10 Amps
Extraction Force <sup>1</sup>	5.0 oz. max.	20.0 oz. max.
Temperature Rating	180° C max.	440° C max.
Temperature Rise <sup>2, 3</sup>	35° C max. typical	45° C max. typical

## Hypertac® Contact System Dependable Interconnect Solutions

Hypertronics interconnect solutions, based on the legendary Hypertac technology, have been trusted for high reliability applications for decades.

HTT Series contacts are high-temperature resistant versions of the superior Hypertac contact technology.

The contacts feature a hyperboloid-shaped basket of individual spring wires strung at an angle to the socket axis.



When the pin is inserted into the sleeve, the wires stretch around it, creating a number of linear contact paths.



1. Methods available to reduce forces dependent upon application.  
 2. While conducting maximum current in mated condition.  
 3. Tested at 6 Amps continuous current in 440° C dwell for 500 hours.