

KS Series

Highly Reliable Electrical Connectors



Up to 100,000 Mating Cycles

Power/Signal Combinations

Protected Pins and Sockets

Custom Designs

Hypertac® Contacts

High Reliability Connector Products for Portable Data Collection Devices

More and more electronic devices are being designed with docking stations to transmit pertinent data from remote locations. This instrumentation can be seen in the hands of package delivery personnel, process control supervisors, and emergency medical responders. The combination of shrinking form factors, rugged environments, and critical data to be transmitted is a challenge when designing and specifying an interconnect solution.

KS Series connectors offer up to 100,000 mating cycles, immunity to shock and vibration, current carrying capacity up to 4 amps per contact and low insertion and extraction forces. The connectors are designed to eliminate reliability

issues commonly associated with commodity connector solutions. Hypertac contacts are recessed within the insulator to prevent damage to the pins and sockets. Insulators are made from rugged heavy-duty polymers to prevent cracking in extreme environments.

Hypertronics offers a suite of products and engineering services for the manufacturers of portable data collection devices. These products and services are designed to provide industry-leading performance and unequalled reliability for heavy-use, data-critical applications such as docking stations for portable scanning devices or rugged mobile industrial computers. With Hypertronics' connectors, OEMs are guaranteed reliable solutions to protect their portable devices and data.

KS Series

Highly Reliable Electrical Connectors

Hypertac Contact Reliability:

- Up to 100,000 mating cycles
- Immunity to shock and vibration
- Low insertion - extraction forces (.3 oz. to 2 oz.)
- Low contact resistance
- High current ratings (up to 4 Amps per contact)

Robust Insulator Design:

- Pins and sockets are recessed for protection
- Temperature rating: -55° C to 125 C°
- Rugged insulator materials: Nylon, polycarbonate, Ultem, LCP
- Optional locking or latching feature
- Single or dual row connector designs
- Small, sleek shape

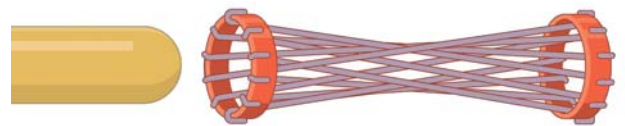
Additional Connector Features:

- Power/signal combinations
- .4mm contacts (1.0 Amp) or .5mm contacts (up to 2.5 Amps)
- Optional "first mate, last break" system
- Cable assembly capability
- Termination styles include solder cup, straight dip, crimp, surface mount, and right angle
- Custom designs available to meet specific application needs

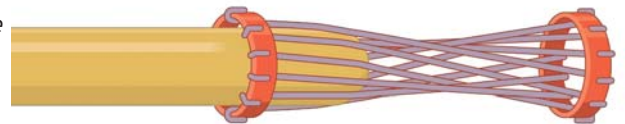


Hypertac Contact Technology

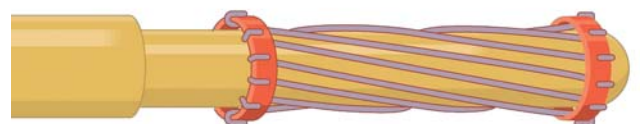
Hypertronics connectors are built upon the legendary Hypertac contact technology. The contacts feature a hyperboloid-shaped basket of individual spring wires that provide up to 100,000 mating cycles, approximately half the resistance of conventional contact designs, immunity to shock and vibration, extremely low insertion/extraction forces, and 360-degree wiping action.



Wire sleeve before insertion of pin



Pin partially inserted into sleeve



Pin completely inserted into sleeve



Hypertronics Corporation

16 Brent Drive
Hudson, MA 01749-2978
Toll Free: 1-800-225-9228
Phone: +1 978-568-0451
Fax: +1 978-568-0680
www.hypertronics.com

smiths
bringing technology to life

Copyright© 2007 Hypertronics Corporation - All rights reserved.
Hypertac is a registered trademark of Smiths and/or its subsidiaries and affiliates. HYPERTRONICS and the H logo are trademarks of Hypertronics Corporation. All other names and marks are property of their respective owners.
HYP-001-0707