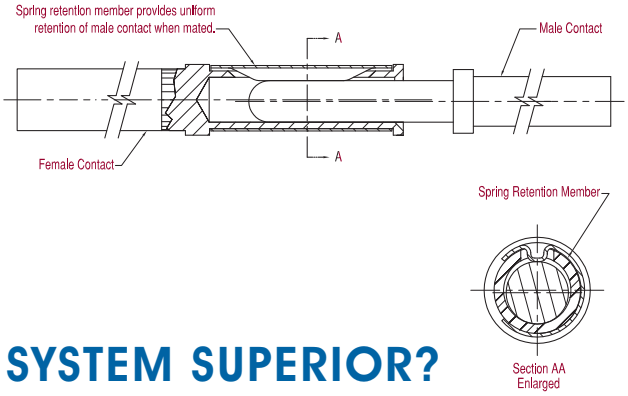
POSITRONIC®
GLOBAL Connector SOLUTIONS

POSITRONIC INDUSTRIES 45th ANNIVERSARY 1966 - 2011

Positronic Industries
white paper

Large Surface Area Contact Mating System

- Separates mechanical and electrical functions for superior performance
- Low contact resistance provides energy savings and minimized voltage drop across the contact.
- "Closed Entry" design prevents damage to female contacts and will not allow misaligned or bent contacts to enter
- Precision machined from solid, high conductivity copper alloy
- Uniform insertion/withdrawal forces through repeated mating cycles



WHY IS THE L.S.A. SYSTEM SUPERIOR?

The primary function of a connector contact is electrical conductivity. Also, a mechanical function is required to provide normal force between male and female contacts.

In order to provide for proper mechanical characteristics, material that has good memory or "elasticity" must be chosen. This will ensure contact normal force in a coupled condition and allow for repeated coupling and uncoupling.

Unfortunately, many materials that have good memory characteristics have low electrical conductivity. For instance, beryllium copper is a good choice for mechanical function; however, some beryllium copper alloys are poor conductors and have relatively low conductivity rates.

The conductivity path of many contact designs goes directly through materials that have been chosen based on mechanical need. If these materials have a low conductivity rating, increased contact resistance will result.

Positronic Industries Large Surface Area Contact System separates the mechanical and electrical functions. A spring retention member provides normal forces, while the electrical conductivity path is through highly conductive contact material.

POSITRONIC INDUSTRIES, INC.
423 N Campbell Avenue
PO Box 8247
Springfield, MO 65801
Toll Free (800) 641-4054
Telephone (417) 866-2322
Fax (417) 866-4115
info@connectpositronic.com

POSITRONIC INDUSTRIES, S.A.S.
Zone Industrielle d'Engachies
46 Route d'Engachies
France 32020 Auch Cedex
Telephone 33 5 62 63 44 91
Fax 33 5 62 63 51 17
contact@connectpositronic.com

POSITRONIC ASIA PTE LTD.
3014A Ubi Road 1 #07-01
Singapore 408703
Telephone (65) 6842 1419
Fax (65) 6842 1421
singapore@connectpositronic.com

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