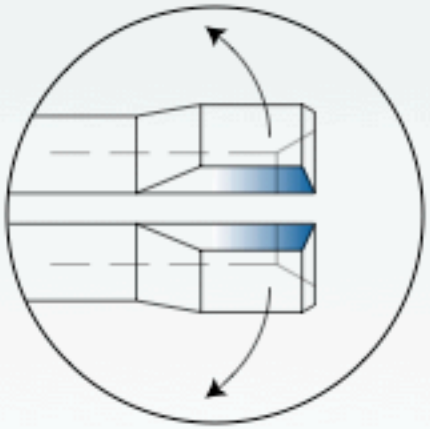
What makes the PosiBand contact design an improvement?

- **PosiBand** is more robust than the split tine contact, which can be pried open in harsh environments, resulting in reduced normal force and degradation of electrical performance.
- **PosiBand** has greater surface area at the male and female contact interface, resulting in more consistent electrical performance.
- Resistance of size 22 contacts is 0.005 ohms, maximum. Resistance of size 20 contacts is 0.004 ohms, maximum. Low contact resistance offers opportunities to use size 22 and size 20 contacts for power.
- **PosiBand** has lower average insertion forces, resulting in greater ease in mating, especially in larger high density connectors. The average lower insertion force is accomplished while meeting or exceeding performance requirements.
- The **PosiBand's** contact body does not require annealing of the crimp barrels, as does the split tine design. This eliminates concern of unintentionally heat-treating the mating end of the contact, which can cause electrical failure.
- **PosiBand** is qualified under **SAE AS3902** and **MIL-DTL-24308** specifications. **PosiBand** is also qualified to the higher 40 gram contact separation test requirement of **GSFC S-311-P4/08** and **GSFC S-311-P4/10**.

POSITRONIC®
GLOBAL Connector SOLUTIONS

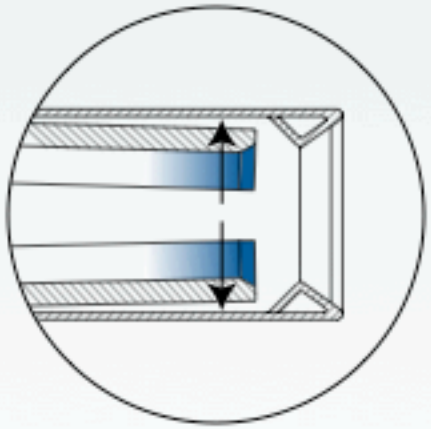
Separation & Surface Engagement Summary



Open Entry

Over-separation is **limited** by insulator cavity

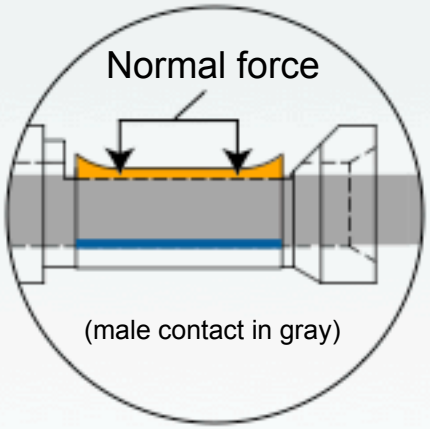
Surface engagement **concentrated** at the tip



Closed Entry

Over-separation is **limited** by sleeve

Surface engagement **concentrated** at the tip



PosiBand®

Over-separation is **eliminated**

Surface engagement is **consistent** along the barrel

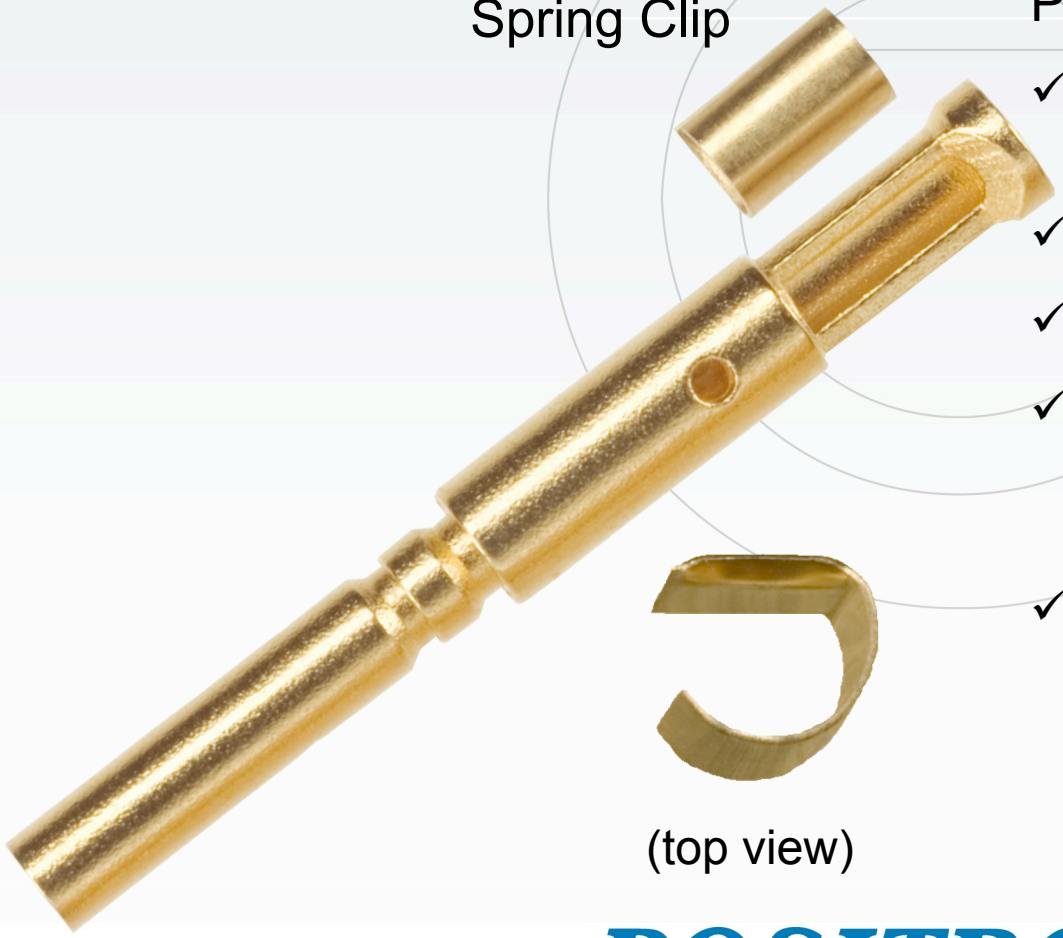
Over separation results in reduced normal force and degradation of electrical performance.

Authentic POSITRONIC® PosiBand®
These contacts utilize authentic Positronic® PosiBand® technology.

Rev C

PosiBand®: A Closer Look

Spring Clip



(top view)

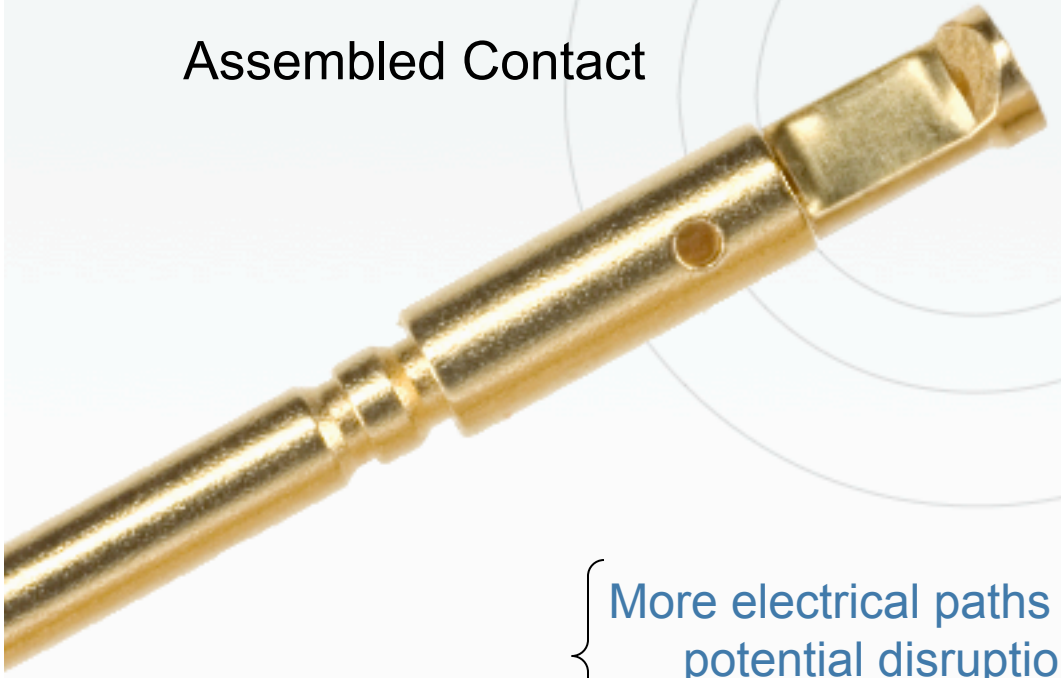
PosiBand spring clip:

- ✓ Provides normal force on the male contact
- ✓ Spring tempered beryllium copper
- ✓ Rugged and reliable
- ✓ Lower average insertion force… while meeting or exceeding performance requirements.
- ✓ Contact body does not require annealling

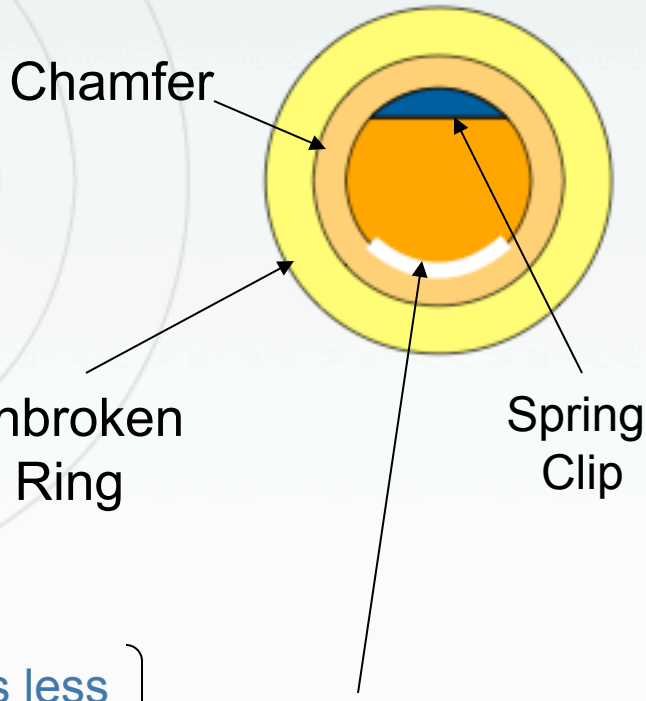
POSITRONIC®
GLOBAL Connector SOLUTIONS

PosiBand®: A Closer Look

Assembled Contact



Cross Section

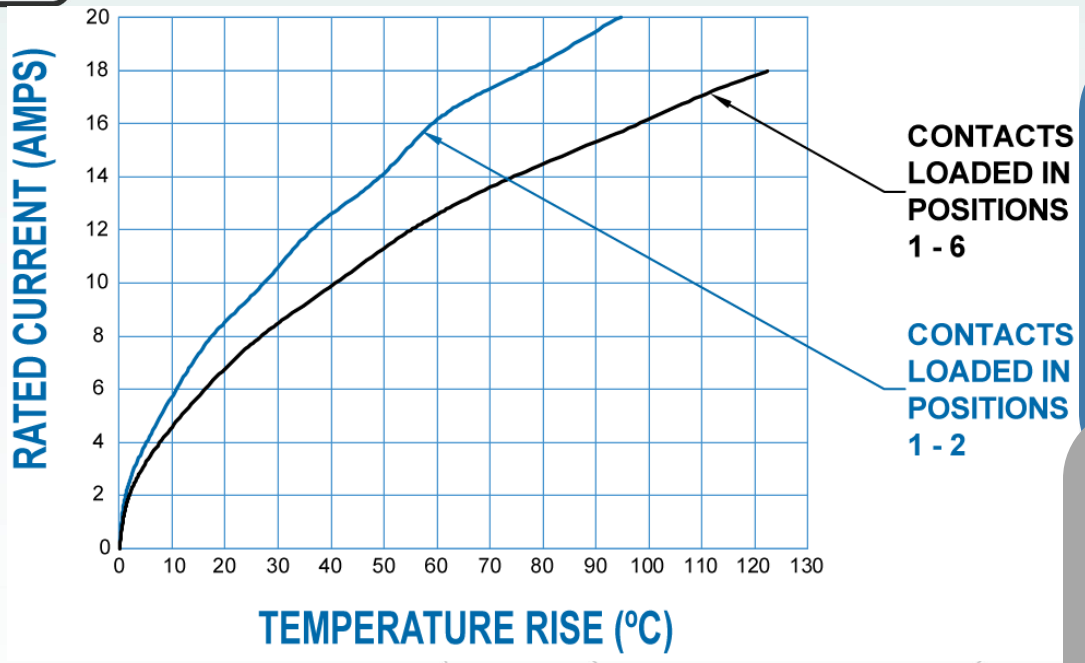


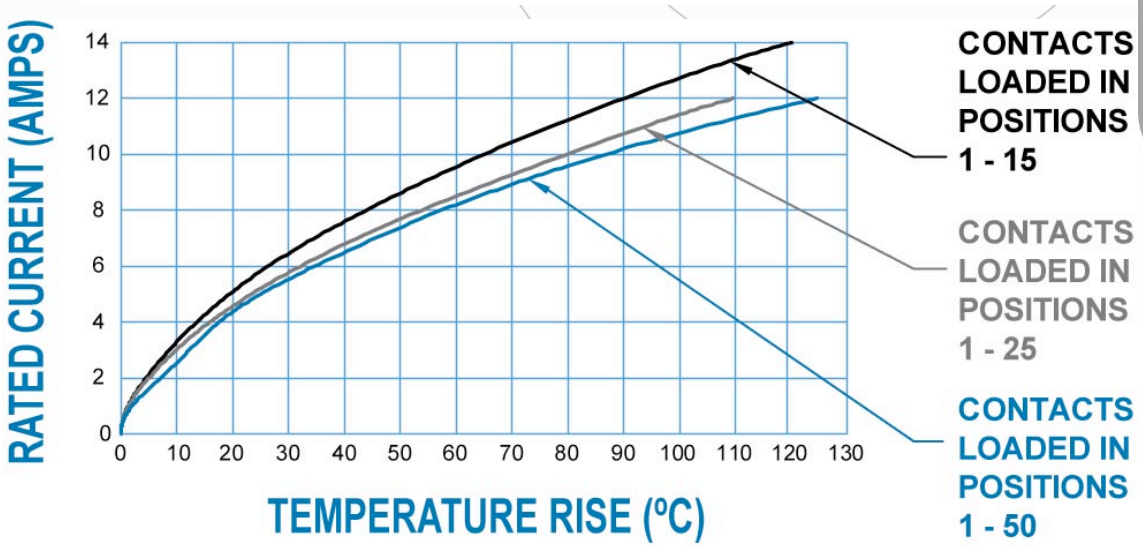
More electrical paths means less potential disruption due to vibration and corrosion

POSITRONIC® GLOBAL Connector SOLUTIONS

Rev C

Size 20 PosiBand®Temperature Rise Curve





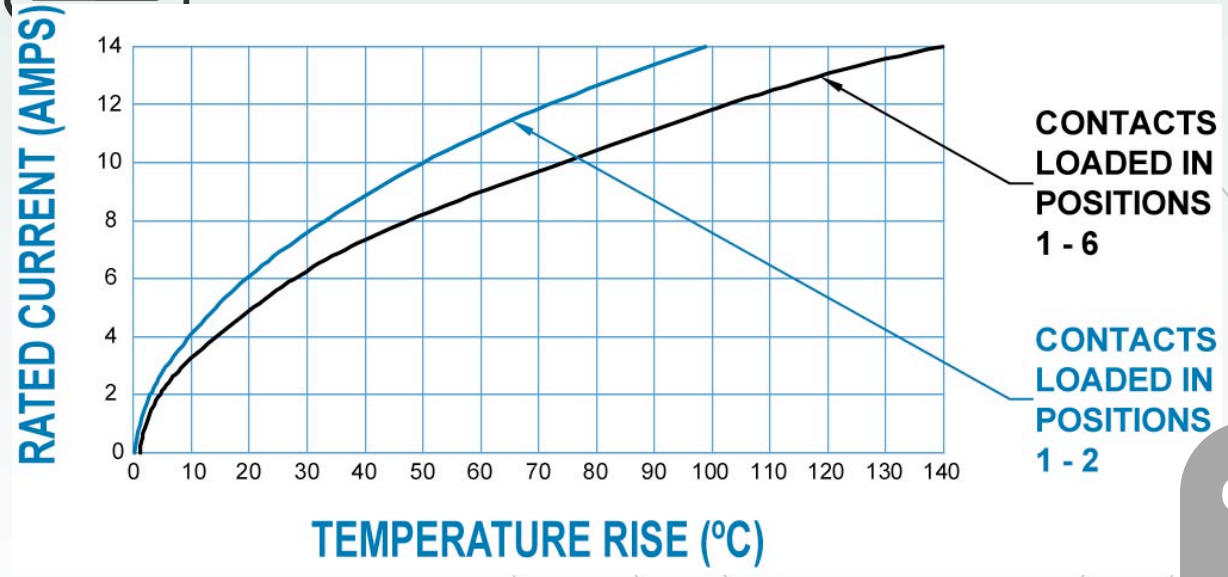
Low initial contact resistance of 0.004 ohms maximum

Current Capacity, per UL 1977**:**

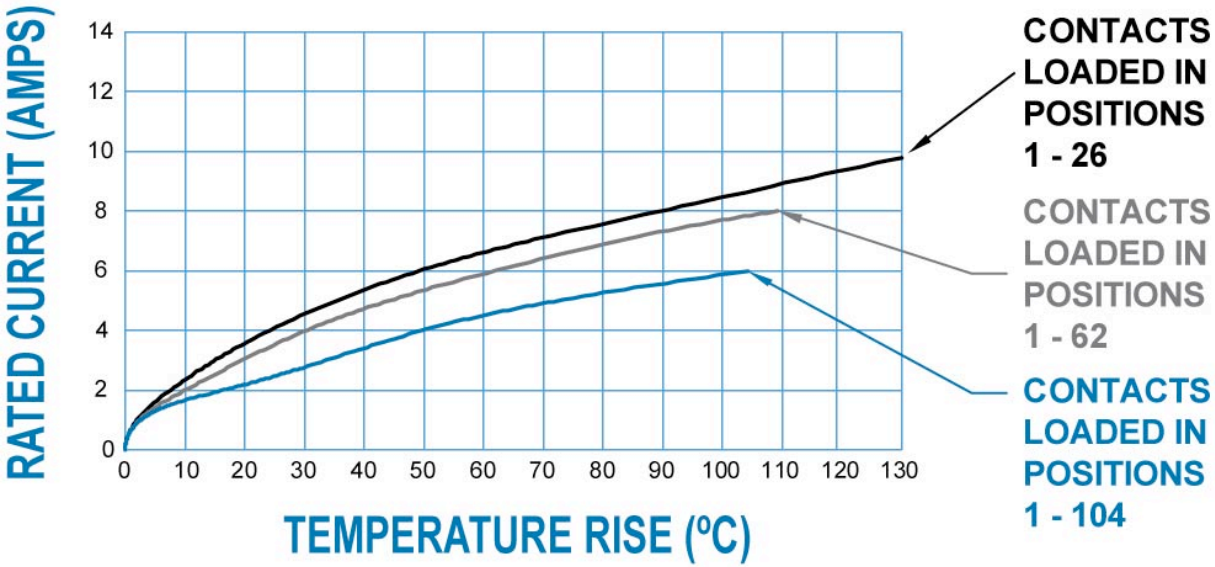
18 amps @ 2 contacts
14 amps @ 6 contacts
11 amps @ 15 contacts
10 amps @ 25 contacts
9 amps @ 50 contacts

Rev C

Size 22 PosiBand® Temperature Rise Curve



Low initial contact resistance of 0.005 ohms maximum



Current Capacity, per UL 1977:

12 amps @ 2 contacts
10 amps @ 6 contacts
7.5 amps @ 26 contacts
6.5 amps @ 62 contacts
5.0 amps @ 104 contacts

Rev C