SERIES 970
PowerTrip™
Reduced size and weight power connectors

- Fast, easy mating with triple-start ACME thread: 360° turn for full mating
- Reduced size and weight compared to 5015/VG95234 solutions
- LouverBand sockets for improved current ratings and longer life, up to 2000 mating cycles
- Splined backshell interface for improved backshell attachment and EMI shielding
- Ratcheting coupling nut for secure mating
- Operating temperature -65° C to +200° C
- Hermetic and filter options available

The Series 970 PowerTrip™ offers improved performance compared to standard 5015 type power connectors: higher density and lighter weight packaging, rapid mating and demating triple-start threaded coupling, and extremely rugged splined and threaded backshell attachment interface.
SERIES 970 PowerTrip™
The power connector for extreme environments

SERIES 970 POWERTRIP™ CONNECTOR STYLES

Plug
- 970-001

Square Flange Receptacles
- 970-003

Jam Nut Receptacles
- 970-004

Cable Receptacles
- 970-005

Feed-Thru Bulkhead
- 970-006

Hermetic Feed-Thru Bulkhead
- 970-007

ABOUT THE POWERTRIP CONTACT SYSTEM

Series 970 contacts are precision-machined using high conductivity copper alloy. A stamped and formed spring ("LouverBand") is installed into the socket contact. The spring is made from 6 mil copper alloy. Testing has demonstrated that this contact system outperforms conventional aerospace-grade contact systems. The LouverBand spring provides many points of electrical contact with the mating pin, as opposed to a few "high spots" on a conventional four-finger contact as shown in the figure below. The size #8 Powertrip socket contact has a total of 18 louvers. The #4 has 27 louvers, and the #1/0 has 42 louvers. The LouverBand design offers lower voltage drop for reduced joule heating. In addition to its electrical advantages, the LouverBand also is mechanically superior to four-finger contacts. The LouverBand spring has consistent, stable normal force, even when subjected to thousands of mating cycles and temperature extremes.

CONTACT RESISTANCE AFTER 1000 MATING CYCLES

Contact Size
- #1/0
- #4
- #8

Conventional contact on the left, LouverBand contact on the right

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