

SERIES 850 HIGH-POWER CROWN RING CONTACTS

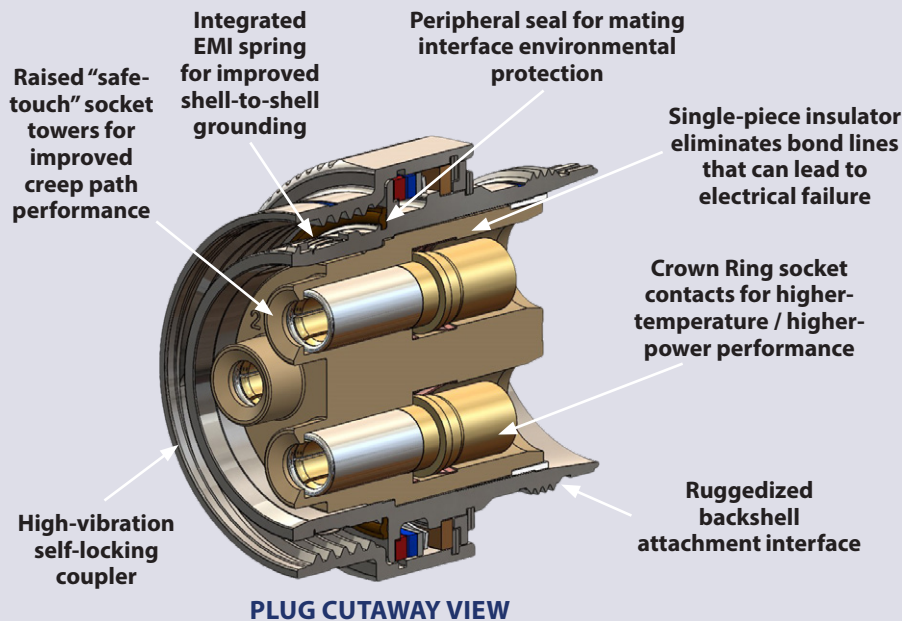
Glenair Signature Crown Ring Contact Series

For reduced contact resistance, superior conductivity, and higher temperature-tolerance than conventional AS39029 contacts and specialized high-power contacts from other manufacturers

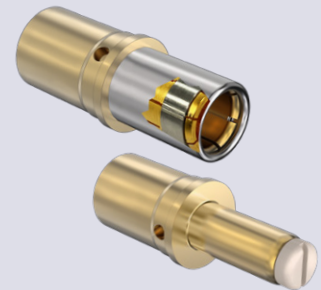
CROWN RING CONTACTS: THE HEART OF THE POWERPLAY CONNECTOR ARCHITECTURE

PowerPlay connectors are engineered with a special single-piece dielectric insulator equipped with safe-touch socket towers housing Glenair high-power Crown Ring contacts. Innovative socket contact design incorporates a high-tension stainless steel ring compressing socket tines firmly against the pin contact preventing material relaxation under high-heat / high-power conditions.

CROWN RING CONTACT / RAISED TOWER INSULATOR ARCHITECTURE



GLENAIR SIGNATURE CROWN RING CONTACTS



- Crown Ring compresses socket split tines for higher normal force
- Precision-machined high conductivity copper alloy lowers contact-to-contact resistance up to 60% compared to AS39029 contacts
- Raised tower architecture and safe-touch pin ensures operator safety

GLENAIR SIGNATURE CROWN RING CONTACTS MATERIALS AND PERFORMANCE



Crown Ring contact connector packaging

A range of contact gauge sizes and insert arrangements are supplied for each of the four PowerPlay connector designs. Broadest range of sizes available in SuperNine MIL-DTL-38999 Series I and III.

- Maximum operating temperature 260°C
- Superior conductivity performance compared to beryllium copper contacts, across full temperature range
- Up to 60% lower contact resistance than AS39029 contacts (normalized, less wire)
- Contact bodies made from high conductivity copper alloy (approximately 95% IACS)
- Pin contact equipped with thermoplastic safe-touch tip
- Stainless steel Crown Ring
 - Provides socket forces without stress relaxation at High-Temperatures
 - Moves socket spring function from socket body to ring, allowing use of high-conductivity copper
- Gold over nickel plating
 - Thicker plating than industry standards for reduced contact fretting and higher temperature endurance
 - Gold over nickel is "gold standard" for high-reliability aerospace contacts
- Crimp versions use standard industry tooling, including crimp die/locator and insertion/extraction tools (2AWG Crown Ring contacts require custom tooling)