

SUPERNINE MIL-DTL-38999 SERIES I & III POWERPLAY

PowerPlay™

- SuperNine Series I & III Raised Tower Architecture
- High-Temperature Crown Ring Contacts
- Compatible TurboFlex Cabling



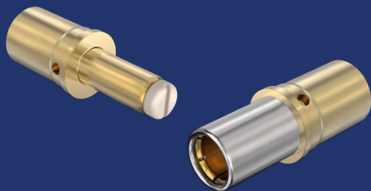
SuperNine Series III
PowerPlay Triple-Start



SuperNine Series I
PowerPlay Bayonet

- MIL-DTL-38999 Series III triple-start stub ACME high vibration and shock mating
- MIL-DTL-38999 Series I rapid mate and demate bayonet-lock design
- Raised tower “safe-touch” architecture
- Industry-standard D38999 mounting and package envelope dimensions

HIGH-TEMPERATURE TOLERANT CROWN RING CONTACTS



Glenair Signature Crown Ring contact series

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

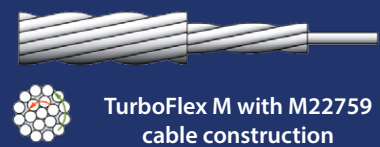
- Maximum operating temperature 260°C
- Superior conductivity performance compared to beryllium copper contacts, across full temperature range
- Up to 60% lower contact resistance than AS39029 contacts (normalized, less wire)
- Contact bodies made from high conductivity copper alloy (approximately 95% 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)

ABOUT TURBOFLEX “M” AND TURBOFLEX “R” CABLE CONSTRUCTION

TurboFlex cables are jacketed with Duraelectric insulation, which contributes to the flexibility of the product. TurboFlex R (rope-lay core) provides maximum flexibility. TurboFlex M (M22759 core) has a slightly larger bend radius but far superior flexibility compared to standard M22759 cable.



TurboFlex R with rope-lay
cable construction



TurboFlex M with M22759
cable construction

TURBOFLEX AND SUPERNINE SR. I AND III POWERPLAY CONNECTOR, CONTACT, AND CABLE ECOSYSTEM								
Cable Type	TurboFlex M with M22759 cable construction					TurboFlex R with Rope-Lay cable construction		
	Single-Wall TurboFlex M Cable	Dual-Wall TurboFlex M Shielded Cable	Single-Wall TurboFlex M, Shield + Fabric Overbraid	Single-Wall TurboFlex M Cable	Dual-Wall TurboFlex M Shielded Cable	Single-Wall TurboFlex R Cable	Dual-Wall TurboFlex R Cable	Single-Wall TurboFlex R Cable
Part No.	967-600	967-601	967-602	967-022	967-024	961-106-2000	961-107-2000	961-108-2000
Insulation / Jacket / Shield Type	Duraelectric D Insulation	Duraelectric D Insulation / Jacket, EMI Shield	Duraelectric D Insulation / EMI Shield Fabric Overbraid	Duraelectric L Insulation	Duraelectric L Insulation / Jacket, EMI Shield	Duraelectric D Insulation	Duraelectric D Insulation / Jacket	Duraelectric L Insulation
VAC Rating	725–2875	725–2875	725–2875	2000	2000	2000	2000	2000
Gauge AWG	✓ = Available Gauges					✓ = Available Gauges		
Typical Current (A)	✓ = Available Gauges					✓ = Available Gauges		
20	✓	✓	✓					
16	✓	✓	✓					
8	✓	✓	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓	✓	✓	✓
0	✓	✓	✓	✓	✓	✓	✓	✓