



MATERIAL:	ELECTRICAL:	MECHANICAL:	ENVIRONMENTAL:
BODY, NUT, RETAINING BOLT: 303 SST PER ASTM A-582  CENTER CONDUCTOR; CABLE INSERT: BeCu ALLOY PER ASTM B-196  INSULATOR: TEFLON	Impedance: 50 Ohms Nom. Freq. Range: DC TO 26 GHz VSWR: 1.15 Max Insertion Loss: .03+.0239 X $\sqrt{f(\text{GHz})}$ . dB Max Working Voltage: 165 Vrms @ Sea Level Dielectric Withstand Voltage: 500 Vrms RF HiPot Voltage: 250 Vrms Min @ 5MHz Corona Level: 125 Vrms @ 70,000 ft Insulation Resistance: 5000 Mohms Contact Resistance: Center Conductor: 2.0 Milliohms	Mating Characteristics: High performance SMA male Force To Engage & Disengage: Torque: 2 inch-pounds max Longitudinal Force: NA  Connector Durability: 500 cycles min @ 12 cycles/minute max  Coupling Proof Torque: 15 inch-pounds min.	Temp. Range: - 65°C to +165°C Thermal Shock: MIL-STD- 202, Method 107, Test Cond. B Moisture Resistance: MIL-STD- 202, Method 106. Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity  Corrosion: MIL-STD- 202, Method 101, Test Cond. B Vibration: MIL-STD- 202, Method 204, Test Cond. D Shock: MIL-STD- 202, Method 213, Test Cond. I

FINISH:		APPLICABLE CARLISLE IT DOCUMENTS			TOLERANCES AND NOTES								
CABLE INSERT; CENTER CONDUCTOR: GOLD PLATE PER ASTM B-488 OVER NICKEL PLATE PER AMS-QQ-N-290 BODY, NUT, RETAINING BOLT: PASSIVATED PER ASTM A-967 OR AMS-QQ-P-35		WORK STANDARD	PROD INSTRUC	ASSY INSTRUC	EXCEPT AS NOTED								
		NA	NA	AI627	DIMENSIONS ARE IN INCHES.								
					3X ±.015								
					LINEAR .XXX ±.005 ANGULAR ±1/8°								
					FRACTION ±1/32								
					1. MACHINE FINISH: 63/RMS								
					2. BREAK ALL SHARP EDGES .003 MAX.								
					3. MACHINED FILLETS .005 MAX.								
					4. MACHINED SURFACES SQUARE TO RESPECT- IVES AND WITHIN .006 INCHES PER INCH								
					5. MACHINED DIAMETERS CONCENTRIC WITHIN .001 L								
					6. DIMENSIONS TO BE MET BEFORE PLATING.								
					7. CHAMFER ALL THREADS 45°.								
					8. THREADS PER B-28								
					9. REMOVE FRAYED EDGES ON TEFLOON.								
					10. REMOVE ALL BURRS.								