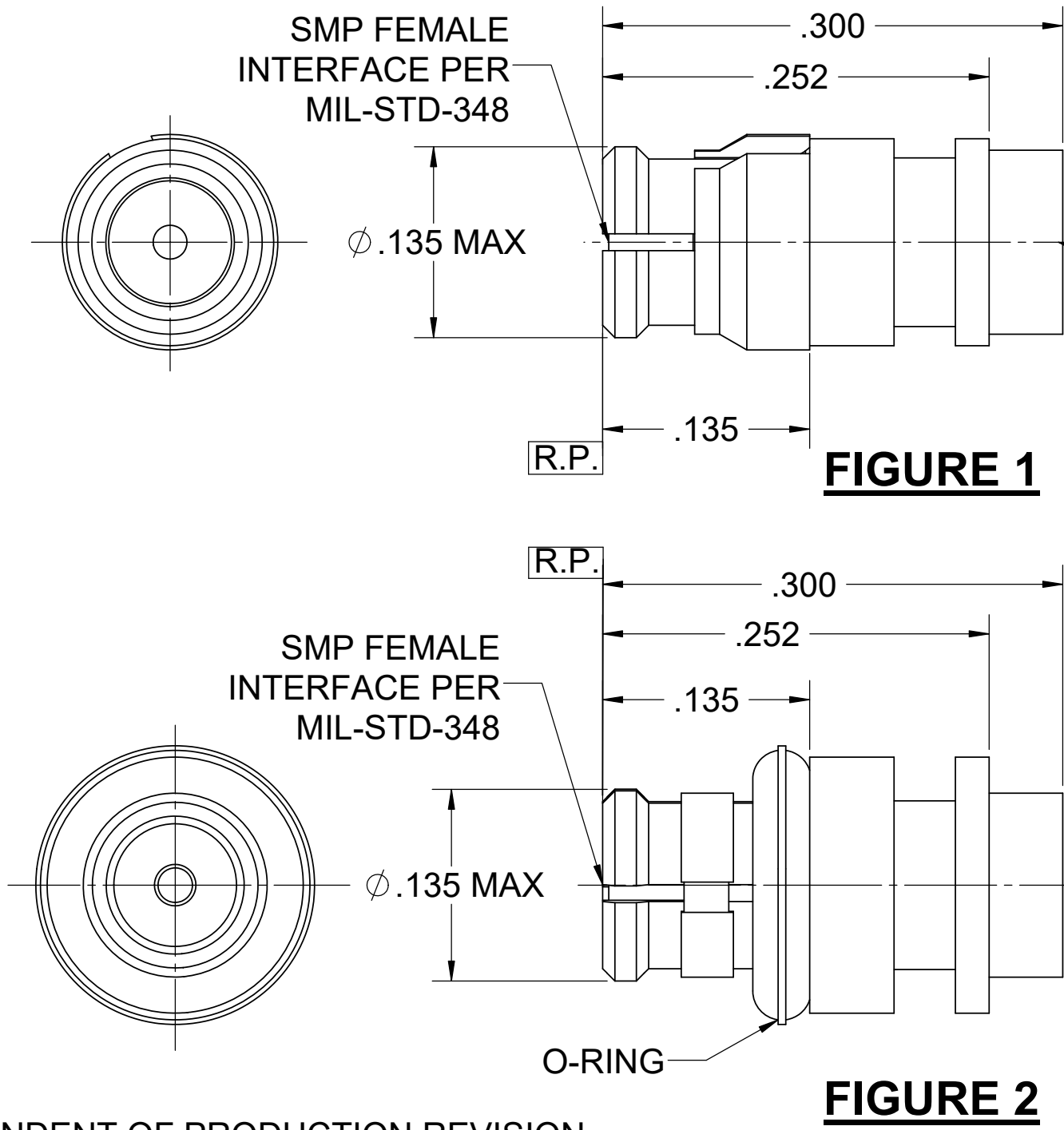
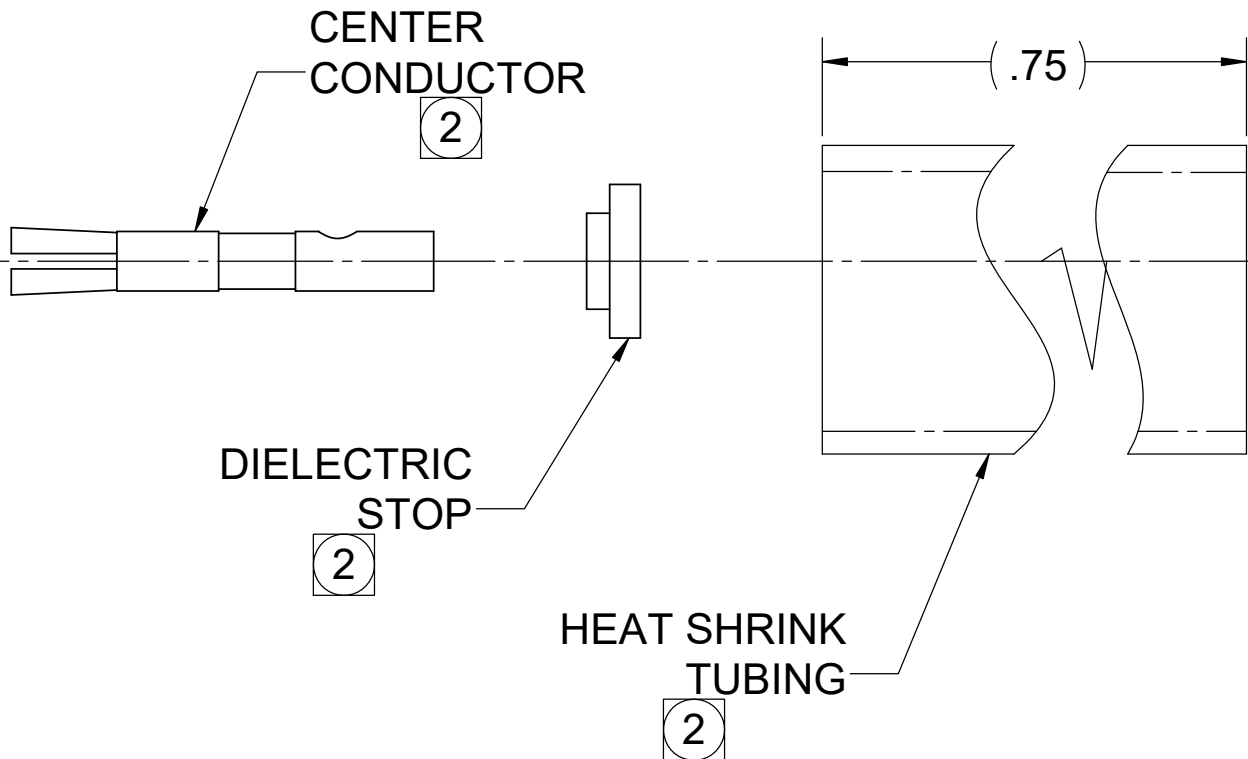


4			3			2			1		
P/N	CABLE TYPE(S)	FIGURE(S)	SMP FEMALE INTERFACE PER MIL-STD-348 .300 .252 Ø.135 MAX SEE TABULATION			REVISION HISTORY					
P657-1CC	RG178	1				ECO	REV.	DESCRIPTION	DRAWN BY	DATE	
P657-2CC	RG316					26099	K	OBSOLETE -5, -8 & -10	DKN	08.21.12	
P657-3CC	RD178					27634	L	UN-OBSOLETE -10CC	DKN	12.14.14	
P657-4CC	RD316					201966	M	-	P. MAO	10.01.24	
P657-9CC	TLL18-1087					206586	N	REDRAWN IN SW	PAW	09.15.26	
P657-10CC	TLL18-1087	2									
P657-5CC THRU P657-8CC: OBSOLETED											



SEE TABULATION
FOR CABLE TYPE(S)



NOTE(S):
1. OUTLINE DRAWING REVISION IS INDEPENDENT OF PRODUCTION REVISION.
2. CENTER CONDUCTOR, DIELECTRIC STOP AND HEAT SHRINK TUBING TO BE PACKAGED AND SHIPPED UNASSEMBLED.

MATERIAL(S):		ELECTRICAL(S):		MECHANICAL(S):		ENVIROMENTAL(S):	
BODY & CENTER CONDUCTOR: BeCu ALLOY PER ASTM B-196. EMI & ANTI-ROCK RING: BeCu ALLOY PER ASTM B-196. DIELECTRIC: PTFE PER ASTM D-1710. DIELECTRIC STOP: POLEETHERKEYTONE (PEEK) or TORLON. O-RING: SILICONE CARBON FILLED ELASTOMER, CONDUCTIVE, COLOR BLACK. HEAT SHRINK TUBING: PER SAE AMS-DTL-23053/4.		IMPEDANCE: 50 OHMS NOMINAL. FREQUENCY RANGE: DC TO 40.0 GHz.** VSWR: 1.20:1 MAX TO 18.0 GHz. 1.35:1 MAX TO 26.5 GHz.** 1.50:1 MAX TO 40.0 GHz.** INSERTION LOSS: .05√f(GHz) dB MAX. WORKING VOLTAGE: 335 VrmsMAX@SEA LEVEL DIELECTRIC WITHSTANDING VOLTAGE: 500 Vrms MIN. R.F. HiPOT VOLTAGE: 325 Vrms MIN @ 5 MHz. CORONA LEVEL: 190 Vrms @ 70,000 ft. INSULATION RESISTANCE: 5000 MEGOHMS MIN CONTACT RESISTANCE: CENTER CONTACT: 6.0 mOHM MAX OUTER CONTACT: 2.0 mOHMS MAX. R.F. LEAKAGE: -80 dB MAX TO 3.0 GHz. -65 dB MAX TO 26.5 GHz. **APPLICABLE TO -9CC & -10CC ONLY. ALL OTHERS ARE LIMITED DEPENDING ON FREQUENCY RATE OF THE CABLES.		MATING CHARACTERISTICS: INTERFACE PER MIL-STD-348. FORCE TO ENGAGE: (MAX) FULL DETENT 15 lbs. LIMITED DETENT 10 lbs. SMOOTH BORE 2 lbs. FORCE TO DISENGAGE: (MIN) FULL DETENT 5 lbs. LIMITED DETENT 2 lbs. SMOOTH BORE .5 lbs. CENTER CONTACT RETENTION: AXIAL FORCE: 1.5 lbs MIN RADIAL TORQUE: N/A CONNECTOR DURABILITY: FULL DETENT: 100 CYCLES. LIMITED DETENT: 500 CYCLES. SMOOTH BORE: 1,000 CYCLES.		TEMPERATURE RANGE: -65 °C TO +165 °C. THERMAL SHOCK: MIL-STD-202, METHOD 107, TEST COND. B, EXCEPT HIGH TEMP TO BE +165 °C or MAX. HIGH TEMP OF CABLE. MOISTURE RESISTANCE: MIL-STD-202, METHOD 106, EXCEPT STEP 7B SHALL BE OMITTED. INSULATION RESISTANCE AT LEAST 1000 MEGOHMS 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(ES):			TOLERANCES AND NOTES					
BODY & CENTER CONDUCTOR: GOLD PLATE PER ASTM B-488, TYPE II, CODE C or D, CLASS 1.25, OVER NICKEL UNDER PLATE PER SAE-AMS-QQ-N-290, CLASS 1. EMI & ANTI-ROCK RING: GOLD PLATE PER ASTM B-488, TYPE II, CODE C, CLASS 0.25, OVER NICKEL UNDER PLATE PER SAE-AMS-QQ-N-290, CLASS 1.			EXCEPT AS NOTED DIMENSIONS ARE IN INCHES. LINEAR .XX ±.015 / .XXX ±.005 FRACTION ± 1/32 ANGULAR ± 1/2° 1. INTERPRET DRAWING PER ASME Y14.5 - 2018 2. BREAK ALL SHARP EDGES .003 MAX. 3. MACHINED FILLETS .005 MAX. 4. MACHINED SURFACES SQUARE TO RESPECT- IVE AXIS WITHIN .005 INCHES PER INCH. 5. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R. 6. DIMENSIONS TO BE MET AFTER PLATING. 7. CHAMFER ALL THREADS 45°. 8. THREADS PER H-28 9. REMOVE FRAYED EDGES ON TEFLON. 10. REMOVE ALL BURRS.					
			APPROVAL INITIALS			DATE		
			DRAWN BY			BRD		
			SEE ECO FOR APPROVAL SIGNATURES					
			SPECIFICATION			PROCUREMENT		
			Amphenol			12900 Alondra Blvd. Cerritos, CA 90703		
			TITLE			SMP FEMALE, STRAIGHT TO FLEXIBLE CABLE		
			SCALE			10:1		
			SIZE			C 30990		
			CAGE CODE			DRAWING NO.		
						P657		
			SHEET			1 OF 1		
			REV.			N		