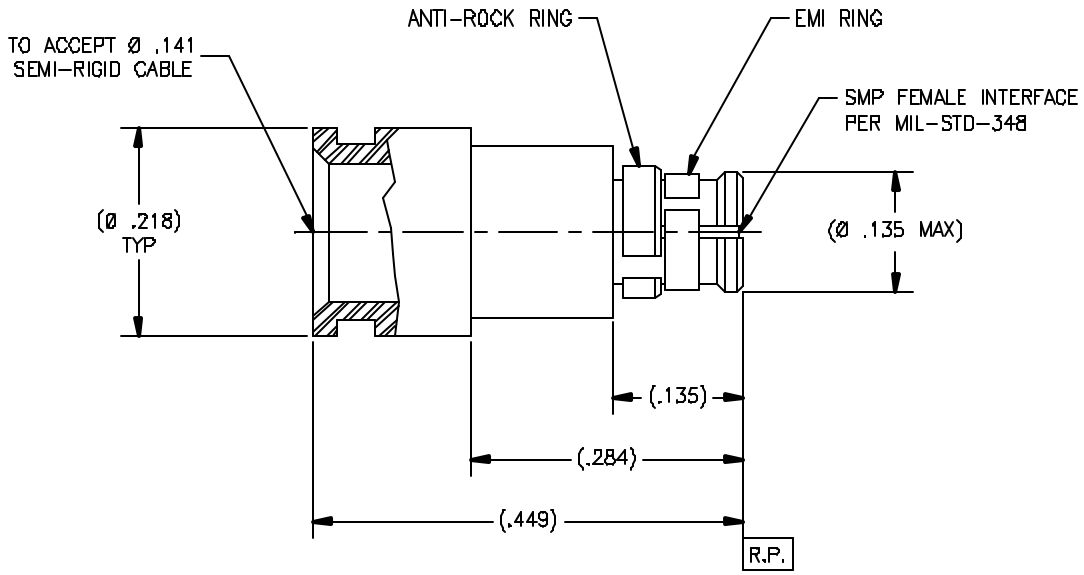
P/N	APPLICABLE NOTE(S)
-1	1,2,3

REVISIONS

ZONE	REV	DESCRIPTION	DATE	BY
-	B	ECO 12090	08/10/00	IMG
-	C	ECO 13792	10.11.01	AGS
-	D	ECO 19839	12.20.06	DKN



DRAWING NO. P629 REV. D

NOTE:
Center Conductor and Insulator to packaged and shipped unassembly.

MATERIAL:

Body, EMI Ring & Anti-Rock Ring:
BeCu alloy per ASTM B-196.
Center Conductor:
BeCu alloy per ASTM B-196.
Dielectric:
PTFE per ASTM D-1710.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.15:1 max to 18GHz
Insertion Loss: .25 dB max to 18 GHz
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 500 Vrms min.
R.F. HiPot Voltage: 325 Vrms min @ 5MHz.
Corona Level: 190 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
Contact Resistance:
Center Contact: 4.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
R.F. Leakage: -80 dB max to 3.0GHz
-65 dB max to 18GHz

MECHANICAL:

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Depend on Detent
Center Contact Retention:
Axial Force: 6 pounds min.
Connector Durability:
Depend on Detent
Permeability: Less than 2.0 mu.
Center Contact Captivation:
Axial Force: 6 pounds min.
Torque: 4 inch-ounces min.

ENVIRONMENTAL:

Temperature Range: -65°C to +165°C.
Thermal Shock:
Mil-Std-202, Method 107, Test Cond. B.
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:

Body, EMI Ring & Anti-Rock Ring:
Gold plate per ASTM B-488, over nickel under plate per AMS-QQ-N-290.

APPLICABLE TENSOLITE DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE
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TOLERANCES AND NOTES
EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES
LINEAR .XX ±.010 .XXX ±.005 ANGULAR ± 1/2°
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 RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .001 TIR.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAM PER ALL THREADS 45°.
8. THREADS PER H-28.
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

-	-	-	-
MATERIAL	SIZE	FINISH	PROCUREMENT

NEXT ASSY

APPROVAL	INITIALS	DATE
DRAWN BY	ATV	08.05.99
CHECKED		
QUALITY		
ENGINEERING	DNg	12.20.06

Tensolite
HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS
Long Beach, California 90815

TITLE (SPACE) SMP FEMALE STRAIGHT TO Ø .141 SEMI-RIGID CABLE

SCALE 10/1 SUB-DRAWING/FORMAT DLP_ SHEET 1 OF 1

SIZE C CODE IDENT 30990 DRAWING NO. P629 REV. D